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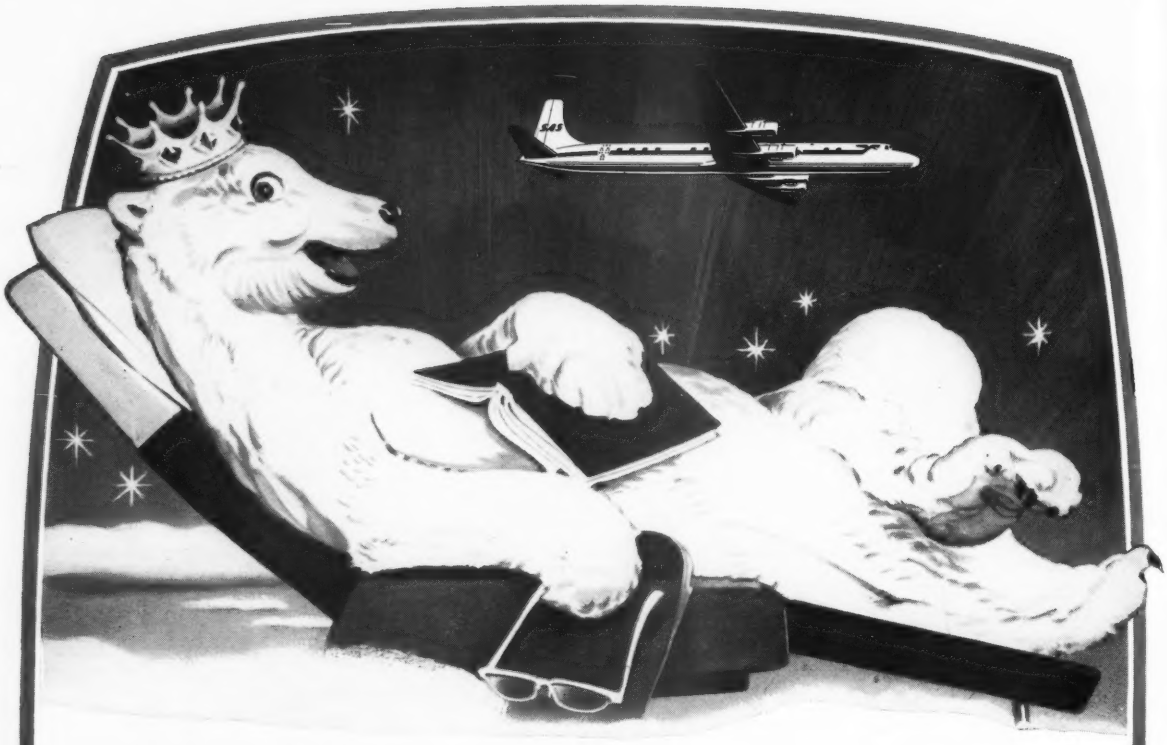

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Oil's Contribution, Past and Future

Oilmen throughout the world should seek the vision to recognize, define and accept a "community of interest in oil" in a common effort to make the world's oil resources available on equitable terms to all people and for the benefit of all mankind, L. F. McCollum, Houston, Texas, president of Continental Oil Company, said on June 1.

In a general lecture entitled "Oil's Contribution, Past and Future," delivered at Carnegie Hall before the Fifth World Petroleum Congress, Mr. McCollum stated that he did not mean that we should abandon our "individual objectives."

"By a community of interest in oil, I simply mean recognition and acceptance of certain fundamental principles which will enable us to pursue our individual interests on an enlightened basis and which will aid us all in the ultimate accomplishment of our individual purposes," he explained.

Mr. McCollum urged the group of oilmen representing countries throughout the world to establish an international study group "to further our understanding of the basic principles which should guide us in the conduct of our affairs and in the solution of our common problems.

"Our best hope for achieving our individual purposes lies in recognition of our mutual interdependence in oil matters," he said, "and in acceptance of a community of interest in oil, to which our individual short-run interests may at times be subordinated in order that our long-term goals may be achieved.

"It is only through mutual understanding of each other's needs, a sense of tolerance, and a true sense of justice, that oil can be used as an effective tool for accelerating world economic development.

Mr. McCollum said some of the present world oil problems are the result of the geographical separation of supply and consuming areas, the present abundance of crude oil supplies, competing economic interests of oil participants, and conflicting interests among nations.

He suggested five "cornerstones" or factors upon which oilmen might build a sounder community of interest and which "might serve to guide our actions in the oil world"—technological, economic, social and moral, political factors, and mutual interdependence.

"We should continue to encourage the free interchange of technological know-how among nations," said Mr. McCollum. "Application of the most advanced technological methods in the location, development and distribution of oil will enable us to obtain its benefits at lower costs and at earlier dates.

"Countries with the more mature oil economies, such as the United States, have a large supply of highly developed technological and managerial skills,"he added. "By drawing upon this available backlog of know-how, countries in the early stages of oil development can reduce the time lags normally involved in the establishment of full-scale oil operations.

"A substantial portion of the revenues from oil operations should flow into research programs designed to encourage sound conservation practices and to promote the use of petroleum products," Mr. McCollum stated. "The future undoubtedly holds many important new applications of oil and its derivatives, if we have the diligence and intelligence to find them."

Speaking on world economic factors, the Continental president said past experience demonstrates that "we can get on with the task of developing and distributing our oil resources far more expeditiously if we shape our programs, policies and actions in accordance with basic economic considerations rather than in opposition to them.

"All countries which are fortunate enough to have potential oil deposits should encourage the discovery and development of those resources," he stated. "In a world where malnutrition, illiteracy and disease still exist, we cannot afford to follow policies and practices which would have the effect of locking up one of our richest sources of cheap energy.

"Oil resources should be developed and utilized in such a manner that they may contribute to diversified industrial development in world producing areas."

Mr. McCollum reported that enlightened business management throughout the world today is "fast coming to recognize the fact that there are some guide lines for the conduct of business affairs which transcend technological and economic considerations. These factors should at times be subordinated to social considerations—to considerations of what is morally right and what is morally wrong.

"All parties to voluntary agreements should faithfully observe the terms of their contracts," he added. "Sound and

profitable commercial relationships can be built only upon a foundation of commercial integrity.

"International oil affairs should be conducted with proper regard for the rights, needs and aspirations of both the producing and consuming nations," he said. "Commercial oil firms have a duty to bear a full measure of civic responsibilities in the foreign countries in which they operate.

"The actions of sovereign nations in international oil affairs should be dictated by broad national interests rather than by narrow commercial interests," he stated. "Oil should not be used as a political weapon in dealings among nations."

Mr. McCollum said world oil business should be conducted with a minimum of political interference and each nation should "seek to employ the economic or business system that will

be most suitable for the development of its oil resources.

"Four things—oil resources, technological and managerial skill, investment capital and consuming markets—are essential before the benefits of oil can be realized. There is no nation on the face of the earth today which is completely self-sufficient with respect to all four of these essentials, and recognition of this fact would contribute much to the harmonious solution of our diverse interests in oil.

"In the final analysis, the development and use of oil is not a product of nature, technology, economic theory or political systems," concluded Mr. McCollum. "Oil's contribution to prosperity and peace has been, and will continue to be, a product of men's minds.

"Our ultimate achievements, therefore, will depend upon the intelligence and understanding which we bring to the job and the spirit of goodwill which characterizes our relationships with each other."

Alaska's Most Expensive Hunting

The oil potentialities of Alaska have real promise, says Morgan J. Davis, president of Humble Oil & Refining Company. In the past 57 years only slightly more than a hundred exploratory wells have been drilled in Alaska's vast area while three times that many wildcats are drilled in a single month in the Gulf Coast area.

One big reason for the lag in Alaskan drilling, he said, is the greater expense than that usually associated with exploratory ventures. For example, before Humble spudded in its wildcat on September 23, 1957, the Company had to ship by barge 8258 tons of cargo, made up of more than 13,000 different items, from Seattle to the remote drilling location in the Kanatak area of the Alaskan Peninsula.

However, if Alaska proves to be real "oil country," he said, the industry will find a way to overcome natural difficulties, but it is going to require a tremendous outlay of money. He adds that exploring for oil is going to be the "most expensive kind of hunting Alaska has to offer. . . . We never enter into an area such as Alaska on a short-term basis, nor pull out if our first ventures prove unsuccessful.

"Alaska has the chance to put into effect sound laws for the conservation of its natural resources and profit from the mistakes made in early days in other oil-producing states. It has the opportunity to lay down the rules that will encourage the use of the most advanced technology. By so doing, it can guard against waste and at the same time promote the creation of a sound, healthy petroleum industry."

Forecast Slowdown in Higher Octane Ratings

A slowdown in the advance towards higher compression automobile engines and higher octane gasolines was forecast by four oil scientists at the Fifth World Petroleum Congress in New York on June 2.

Further improvements are likely, they said, "but the pace of the past cannot be presumed to be the future."

The four scientists, all members of the research staff of the Standard Oil Co. (Indiana), were J. B. Duckworth, E. W. Kane, T. W. Stein and T. O. Wagner, all of Whiting, Ind.

They noted that with current refining techniques further increases in octane ratings mean higher manufacturing costs. Retail prices "must eventually reflect these costs," they said. This is ample reason, they added, for careful planning by the automotive and petroleum industries. "The large capital investment for processing facilities to improve octane number should be fully justified in terms of benefit to the consumer," they said. "Although research will doubtless lower cost of raising octane number in the future, gasoline is already a highly developed product."

In another technical paper delivered to the Congress, Dr. Clark Goodman, research director of the Schlumberger Well Surveying Corp., Ridgefield, Conn., predicted that nuclear reactors will be used within a decade by the petroleum industry in the manufacture of petrochemicals. He also forecast that it will be at least another 10 years before a nuclear power plant which is economically competitive with conventionally fueled plants will be in operation in the United States.

Nevada Game Range Classified for Oil and Gas Leasing

Approving recommendations of a classification study made by the U. S. Fish and Wildlife Service and the Bureau of Land Management, Secretary of Interior Fred A. Seaton, announced that 1,300,000 acres of the 2,200,000 acre Desert Game Range in Nevada are to be opened to oil and gas leasing activities. The range was designed to protect the desert bighorn mountain sheep.

Opening of the Nevada game range represents the second time such a classification has been made, the first being the Kenai Moose Range in Alaska.

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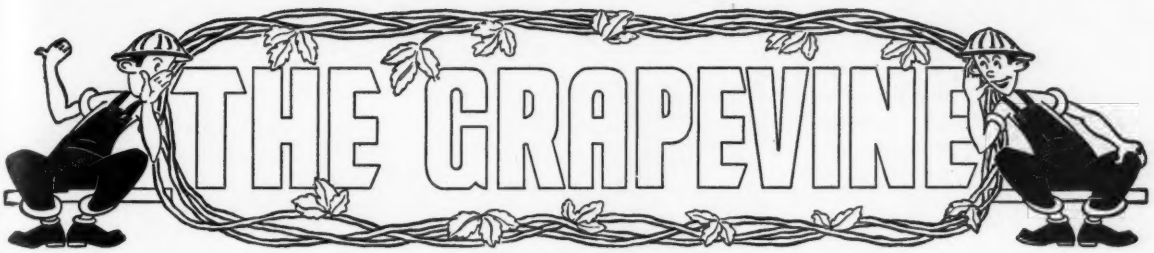


By RICHARD SNEDDON

We Go High Hat

On a recent Saturday afternoon we gathered with an imposing consortium of high gloss at Perino's, to meet and greet Ingeniero Pascuale Gutierrez Roldan, director general of Petroleos Mexicanos which we lads in the know familiarly term "Pemex." This was at the invitation of Edwin W. Pauley, chief executive and director of the far-flung Pauley enterprises, and especially of Pauley Petroleum, Inc. As nearly as we could gather, the occasion marked the wind-up of a ten-day tour of the U. S. by the Ingeniero Roldan and his entourage which included his assistant, Senor Fernando Padilla, and one of Mexico's leading bankers, Senor G. Robles. It had several purposes: to give the estimable Senor Roldan an opportunity to propound his good neighbor ideas for the benefit of State, County, and City officials; to assure local bankers and brokers that they need have no fear of the Mexican monetary exchange system; to convince oil people that Mexico is a good place in which to invest; to enlist the help of the press in spreading these glad tidings; and perhaps most important of all to announce the joint discovery by Pemex and Pauley Inc. of a new oil-field offshore from Tabasco in the Isthmus of Tehauntepec, at the southern end of the Gulf of Mexico.

A Smashing Affair

It was somewhat startling to us just to learn that there was a state called Tabasco. Up to this moment the only thing we had known by that name was a nippy sauce. However, getting back on the fairway, the initial well in the new field is currently producing about 1700 barrels of 38° gravity oil daily through a restricted choke, and was stated to have traversed a number of other good looking sands en route to the 10,000 ft. bottom. There is every reason to believe, indeed, that this one is what the English people would describe as a "smashing" discovery, and it is easy to understand why the Pemex and Pauley people should be exhibiting visible signs of elation.

Greetings & Salutations

The proceedings opened with a cocktail session during which we met some mighty substantial members of the business world and once more confirmed our belief that industrially, socially, and structurally, host Edwin Pauley and his old school chum, Charles Jones, Richfield Oil Corporation president, are two of the biggest men in town. We also confirmed a prior observation that despite their stratospheric dimensions, they are both thoroughly human persons with a nice sense of the fitness of things and a complete naturalness that is especially appealing to little guys, like ourself, who are pretty much lost when we find ourselves among the giants. Following an appetizing lunch, in the course of which we sat between Kam Cadwell, Union Oil refinery and foreign sales chief, delegating very effectively for Cy Rubel, and Chester Rude, upper echelon officer of Security First National Bank, a very pleasant table companion, we were introduced to the honored guests, Senors Roldan, Padilla, and Robles, and Fernando, son of Senor Roldan. To these, Mr. Pauley intimated, business men of Los Angeles could pay no greater tribute than to give up their Saturday golf to attend this function in their honor. Thereafter, they were given a rousing welcome by Bert Leavitt of the California Land Commission in behalf of Governor Brown and the State; by Mayor Norris Poulson in behalf of Los Angeles; by Norman Chandler, publisher of the Los Angeles Times, in behalf of the press; by C. S. Jones, in behalf of the oil industry; and if we ourself had found a good opening we would have welcomed them in behalf of the Petroleum Club of Los Angeles where just a few days previously we had celebrated *Cinco de Mayo* with *mucho gusto.*

The Mexican Oil Situation

When the preliminaries had been taken care of Senor Roldan outlined the present status of oil and gas affairs in Mexico; what is in prospect in the way of further exploration and development; new and enlarged refining facilities; and extended pipe lines that may eventually reach all the way to the United States. He painted a glowing picture of the petroleum future of his country and the opportunities it offers U. S. investors, and he did so with a warmth and sincerity that made a most favorable impression on his distinguished audience (the adjective "distinguished" excluding us, personally, of course). He was followed in this educational disquisition by Mr. Pauley, who explained the story here and there, expressed his own gratification over the aforementioned discovery, and voiced also his pleasure at the gracious treatment he and his firm had received and were still receiving at the hands of the Mexican Government. It was a totally enjoyable and informative interlude that couldn't help but strengthen relations between Mexican and U. S. oil industries, and we were pleased no end to be a witness to all these signs of international amity. Having been built low to the ground and with no particular speed afoot, we have long been a stout admirer of peace—industrial, social, and racial.

Around the Festive Board

Among the celebrities glimpsed at this elevated conventicle and not already mentioned were Lieut. Governor Glenn Anderson; Rollin Eckis, executive vice president of Richfield Oil Corporation; Henry Salvatori, president of Western Geophysical Company; a confusion of Milton Lewises—Milton W., the consultant, and Milton, no W, the Ralph M. Parsons higher-up; former Los Angeles County Sheriff, Gene Biscailuz; Vic Rossetti, honorary chairman of the Board of Security First National Bank, in which our family fortune, commonly referred to as the "Snedderhorn hoard," is now securely housed; Byron Linville, in charge of oil loans for the same; Joe Reid, the Cabot Carbon biggie; John

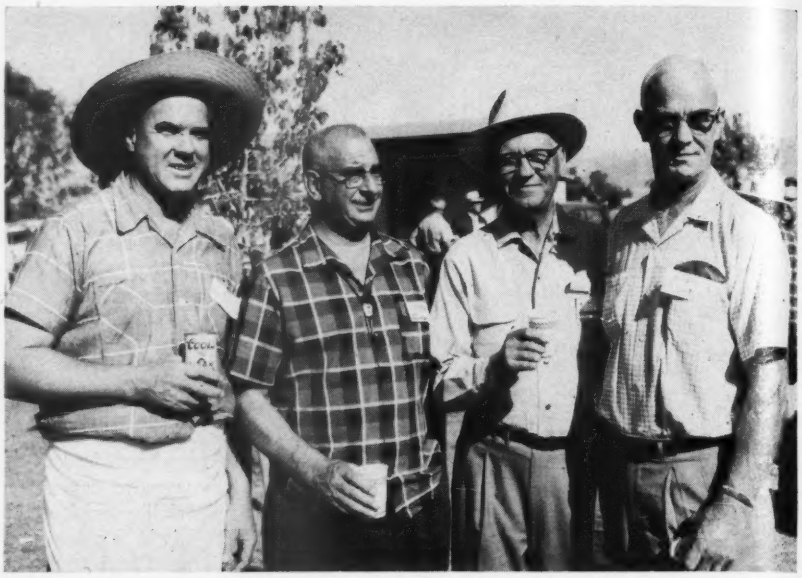
Lynch, the much traveled Texas-Eastern executive; a trio of Bank of America vips, to wit, Bill Valdis, George Moore, and Harry Bardt; Mike Bowler, noted officer of the Farmers & Merchants Bank; and some exceedingly high brass from the brokerage business, including Chet Glass from the house of Staats; Murray Ward of the E. F. Hutton menage; Leo Babich of Hill Richards; Emerson B. Morgan of Morgan and Company; and Warren Crowell, the front half of Crowell-Weedon.

Skipping the Press

There was a pretty imposing delegation from the press, too, in addition to Norman Chandler, the handsome Times chap with whom we remember playing a game of golf back in the 30's at Midwick Country Club before the place was taken over by the Banana King. That's when we were editor of Union Oil Bulletin and had a flock of wisecrack columns running in house organs all the way from the Nederlands to North Bend. We are not going to mention the other news people at this convocation because they don't expect to be cited in trade journals, and trade press reporters don't expect to be cited by other trade press reporters, so we are allowing the entire brigade to struggle along "unwept, unhonored and unsung."

Special Guests

Others, however, worthy of more than passing notice were Ed Carter, president of the Broadway-Hale stores and a close friend of Edwin Pauley; Riad Ghali, brother-in-law of King Farouk of Egypt now, we understand, making his home in Beverly Hills; Fred Levy, co-owner of the Los Angeles Rams, and a realtor of high stature; Henry Clock, an oil magnate from Long Beach; Ray Waestman, an interesting chap with whom we chatted and forgot to find out his affiliation; Harold Wright, executive director of the Los Angeles Chamber of Commerce; and Ted Braun and Cliff Miller of the Braun public relations enterprises. There were also present, as might be expected, some Pauley Inc. people of major importance, among them Ed Pauley Jr. who was formerly in charge of foreign operations but whose current interest is the recently purchased Newhall refinery; Claude Cameron, special assistant to the president and a 22 year man with the Company; Don McPherson, another Caledonian, who officiates as chief petroleum engineer; John Ohl and Paul Conley, members of the Board of Directors; Bill Pagen, vice president; George Calleya, Edward Hidalgo, and Ed Martin, all directly concerned with the Mexican operation; and last but far from least Courtney Owens, the pleasant mannered administrative assistant to President Pauley. Apart from the announcement of a significant discovery, we would say that the highlights were Mr. Pauley's insistent contention that it is here in the western hemisphere that we must have adequate oil supplies to guarantee our greatest security; and Senor Roldan's pronouncement that we "don't need to be brave to engage in oil operations in Mexico —merely wise."



At Pioneers' Barbecue, left to right: Hugh Gribbin, Macco Corp; Jules Toussaint, Standard of California; Jack Harpster, Security Engineering Co; F. P. Gribbin, Gribbin & Baylor.

Barbecue Arranger

Switching now to other areas of interest, the Petroleum Production Pioneers had one of its most interesting gatherings at Kern County Picnic Ground in Bakersfield in early May. This affair was largely arranged by Floyd Vaughn of Halliburton Oil Well Cementing Company, and we'd just like to say publicly that here is one of the nicest young fellows it has been our lot to meet in a long time. We suspect that he had his origin in Texas or somewhere nearby, but in any case he is a thorough gentleman from head to toe and it is a genuine pleasure to be associated with him. He works like a Trojan and seldom asks for volunteers when he can do the job himself. If we personally were an industrialist, this is one lad we'd sure like to have on our team. He not only gets things done, but he does them, and with an enthusiasm and evident enjoyment that is rare in these days of luxurious living.

Donley Steaks Are Tops

Attendance at this one was approximately 700 and Don Donley and his little band of barbecue experts did a pretty neat job of serving delicious steaks and all the trimmings. It wasn't easy because the last minute ticket sales were terrific. Besides that the steaks were so good that some of the boys with high capacities went for seconds and even thirds, and it was only by the good grace of Floyd Vaughn who rode all the way to Taft for an extra load, that everyone was served. Ed Cleveland and his fine young band of receptionists started everybody off in good humor; Hugh Gribbin and his platoon of potion purveyors kept them that way; and the dinner was tops. From early afternoon, until the end of the wingding, Bill Lee, and his G. P. sound truck filled in the blank spaces with good music, and even brought in the Dodgers game play by play, for all of which we are more than grateful to Bill, to his chief, Jack Buyers, and to the General Petroleum Corporation.

Men Behind the Guns

We should also pay tribute to Sam Kelly, Jack Grafton and the others in Bakersfield, and Al Bailey in Taft, for their excellent selling job; and the same for Pick McIver, on-the-spot salesman, who fitted pretty tightly into the ticket booth, but handled the situation nobly,

nonetheless. We don't have the names of all the servers but they too deserve a pat on the back for helping so much to make this one of the greatest P.P.P. gatherings in quite a while. And, of course, there was that always gentlemanly chap, John Isaacs, who reminds us so much of Princetonians we have known, and to whom we are indebted for his expert handling of the complex transportation problem.

W. S. Fisher Honored

The most important event of the day was the delayed presentation to Bill Fisher, noted Coalingan, of a Life Membership in P.P.P. Bill was unable to come down to Los Angeles at Christmas time for this purpose, so Prexy O. W. Chonette took advantage of his presence at Bakersfield on this occasion, to call him up front and center, and pass over his gold card with a few kindly remarks. W. S. Fisher was born in Hume, Mo., in 1875 and despite his 84 years looks well and strong. He came to California in 1894 but didn't find Coalinga until early 1902 when he began officiating as superintendent of Mercantile Crude Oil Company, a position he held until 1940 when the company changed hands. Meantime, in succession he bought out Confidence Oil Company, W. M. M. Oil Company, Erie Petroleum Company, and thirty years ago he leased Section 30 from Aetna Petroleum Company. Later he acquired the fee interest, bought out all the other stockholders, and up to the present time has drilled 48 wells on the property. Bill has always been a much admired citizen of Coalinga and his 47 years as an operator there, together with his profound interest in community affairs, have brought him a host of friends besides making him well worthy of this recognition by P.P.P.

The Grand Convocation

Among interesting oilmen attending this gathering were Bart Gillespie, now a citizen of San Mateo; and a delegation of San Francisco Chevronites, including Reg Stoner, Jules Toussaint, Alonzo Jones, and Owen Haynes, all looking hale and hearty. Others spotted here and there were Tom Hickey, affable head of Hickey Pipe & Supply Company, who also had his start in Coalinga and has more friends than a highschool girl with a Cadillac convertible; Tex Humphrey, the E. B. Ball production chap, with a party of buddies from down Wilmington and Long Beach way; Don Grubbs and Rex Malone of Oil Well Supply Company; Walt Graham and a group consisting of W. J. Reid, Bob Marchand, H. Branson, Vern Trecker, Arch McCandless, and Dick Mays; F. R. "Dutch" Schmieder, ex-prexy of P.P.P.; Clint Kimberlin, the noted tenor, formerly of KNDA and later Seaboard; H. H. Maddren, retired Republic Petroleum Company executive; Umberto Young, noted geological consultant; Ray Elliott, the mayor of 108th Street just back from his world travels; Sylvester Newton, the McCullough Tool Co. chap; T. V. (sometimes known as "Television") Long, from Superior Oil Company; Homer Hancock, well known member of the 7600; Ken Ramey, assistant to the president of Axelson Mfg. Co.; Bob Fulkerson, the founder of the Fulkerson empire; and Judge Saatjian, now living in the lap of luxury down Long Beach way.

Glimpsed Here and There

From over Bakersfield way came R. M. Miller, Tom Milloy, Lawrence Reischman, John Ohman, Maurice Adams, R. E. McCarthy, Charlie Potter, Elmer Smyser, Pug York, Harold Ross, H. R. Dickey, Ed Bender, Joe Anderson, D. E. Rising, Kim Foust, C. L. Reese, Cotton Holder, Dave Brymer, Charlie Steelsmith, Floyd Past,

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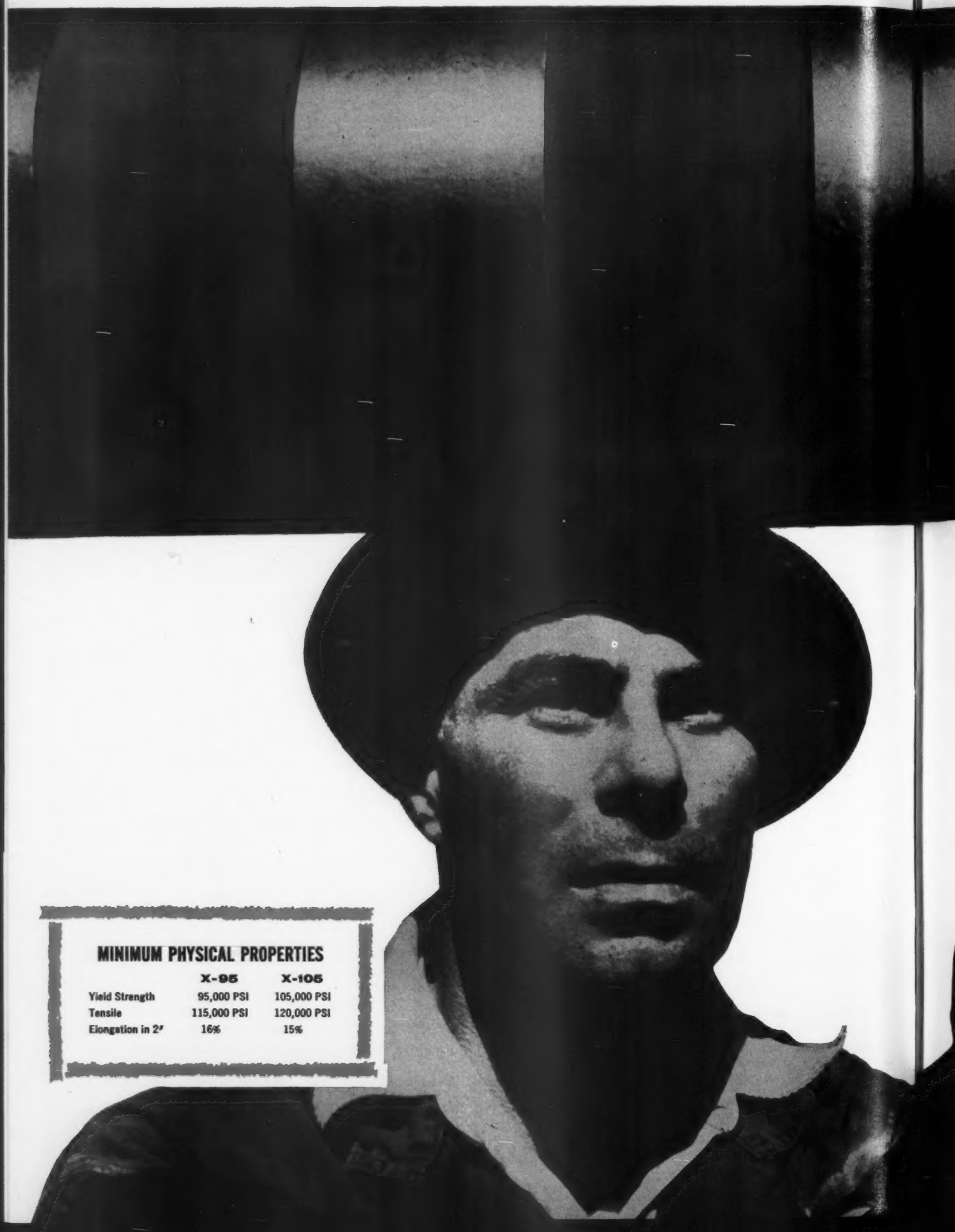

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Can you imagine a portable crane with a 250′ boom? Along side an average 150′ height limit building in downtown Los Angeles, this crane would tower above any structure with the possible exception of City Hall. P & H says it's the World's largest. It also caused more stiff necks than a rocket launching at Cape Canaveral.

Cummins Diesel exhibited the World's largest flat bed truck, 16′ wide, and 41′ long complete with navigational equipment for oil field service in the vast uncharted desert wastelands of the Sahara. Vehicle should have excellent adaptability in Los Angeles area during smog attacks, and also on our freeways—they can straddle the dividers!

Also outstanding was National Supply's exhibit showing the World's largest drilling rig with a mast 142′ high and a rotary table powered by an electric drive of approximately 2400 h. p. This rig is rated to drill to a depth of 25,000′. The driller's control panel for this rig looks something like a cross between the keyboard of a Hammond organ and the dashboard of a 707 jet.

To pump all the deep wells made possible by these new powerful rigs, Lufkin naturally presented the World's largest pumping unit. Bigger than "The Blob," our machine stands 47′ high to the top of its horse head and weighs 80,000 lbs. Stroke length 20′. If only somebody will come up with a 60,000 lb. polish rod, it can handle that too. The kids thought it was a great exhibit, with three little peewee units mounted on the monster's walking beam. Parents were plagued with pleas of their progeny to purchase the peewee pumpers but when the show closed, Pete Little reported parents' promises pooped out because the kids settled for popsicles.

Lufkin FOUNDRY
& MACHINE COMPANY

Don Lucas, Harry Warner, R. B. Miller, Riley Combs, J. H. Pinnell, Jack Carley, C. C. Scharpenberg, Bob Doe, Guy Parker, Floyd Dezarn, Elmer McClure, E. E. Millican, and hundreds more. E. C. Bolton and C. J. McLaren made it all the way from El Segundo. Ed Crail came up from Redondo Beach. From the former city of Moron, now known as Taft came Al Bailey, Ken LeGar, Fred Amburn (McKittrick), Ed Winterstein, W. H. Nicholson, Jake Lehman (Maricopa), O. C. L. Witte, A. E. Jones (Fellows), R. A. Melo Jr. (Maricopa), L. L. Van Epps, J. N. Fleharty (McKittrick), *et al*, as the legal boys say.

And Still They Come

Down from Coalinga way, besides Bill Fisher, we noted Harold Dunkley and Stan Miedeche. Then there were Claude Reynolds from Atascadero; E. S. Markham from Camarillo; and old timers too numerous to mention, among them Max App, now living in Glennville; Cleve Wilkinson, San Luis Obispo; Wayne Hummel, Cayucos; Chris Rector, Big Pine; Ross Kelley, Inglewood; Glenn Camblin, Palos Verdes Estates; M. R. Rosenlieb, San Fernando; Dick Sperry, Encino; F. C. Ripley, Los Angeles; John Augsburger, Long Beach; John Cody, La Canada; George Kammerer, Fullerton; and Guy Williams, Willets. This is only a smattering of the 700 that attended the gathering which thanks to a lot of hard working juniors was a pronounced success. We regret the lack of space that precludes the possibility of giving everyone a mention. In conclusion we would just like to say once more to Don Donley that the steaks were wonderful, and we would further note that it is doubtful if in all P.P.P. history there has ever been so much reminiscing and remembering when as there was at this outstanding congregation of kindred souls.

Petroleum Clubbers Cavort

The Cinco de Mayo party at the Petroleum Club, presided over by Dudley and Genivieve Tower, and engineered by Bill & Peggy Kirk, was a delightsome soiree, at which 200 members and guests with their ladies, dressed in gay costume, and conversing in fluent Spanish with a slight Figueroa Street accent, danced the night away and had more fun than a flock of beatniks at a rock 'n roll contest. Man, this was the most! Helping the Kirks with the arrangements were Earl & Pat Hightower; Howard & Mary Jane Said;

Art and Laverne Huey dressed as Bolivian Indians for the Petroleum Club Cinco de Mayo.

Fred & Betty Tanner; Neal & Ruth Thompson; Jack & Marlyn Marquette; Don & Edythe Davis; Ray & Helen Elner; Bob & Patricia Hadden; Bill & June Tetsch; Bill & Lillian Porter; and Laurence & Barbara Green. The costumes were literally out of this world, although there seemed to be here and there some slight departure from the *motif espagnol* if we may use a nasty expression and it is too late to stop us now.

Of Sunday Disguises

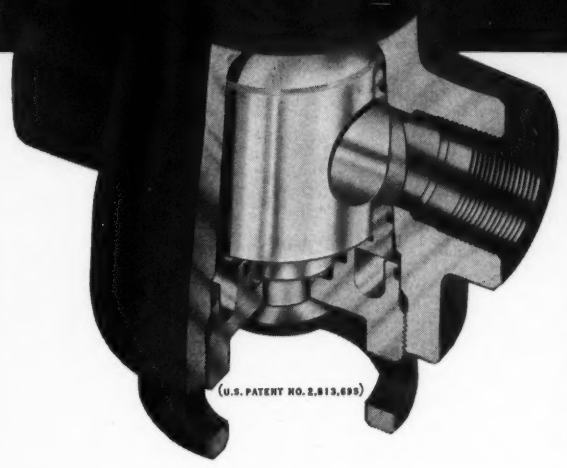
The ladies in the main were a very lovely assortment of senoras and senoritas, but the men showed sporadic streaks of independence. Dud Tower in a five gallon hat and other appropriate garments, of course, reminded us of a Texan with three swimming pools—one with salt water in it for folk who liked sea bathing; one with river water in it, for those who liked fresh water bathing; and one with no water in it at all for people who just didn't care for any kind of bathing. Neal Thompson, as nearly as we could determine, was disguised as an Alabama mortician, or southern planter as they are sometimes called. He wore a wide brimmed panama hat, and a four-in-hand tie, but we particularly noted that he wore neither pink shoe laces nor a purple hat band. Jim McNeill for some part of the evening at least gave a pretty good impersonation of a Hibernian Padre whose name might easily have been Father O'Neill.

Bolivian Indians & Bandidos

The whole place was colorfully and appropriately decorated as usual by June Luscher, and the blaze of brilliant serapes, mantillas, sombreros, and oth-

HALLIBURTON

LO-TORQ PLUG VALVE



surpasses existing field requirements

A new development by Halliburton . . . the most versatile plug valve ever designed for the higher working pressures and low torque operations . . . yet dependable under the most severe operating conditions. Its unequalled performance surpasses existing field requirements . . . is capable of carrying many varieties of fluids and slurries . . . in cementing, drilling, fracturing, acidizing and mud systems . . . functions at pressures to 15,000 psi . . . is strong and durable, yet light in weight.

Compare these features of the Lo-Torq plug valve with any other plug valve!

• **ECONOMY**. . . low initial cost—economical to maintain—parts easily replaced in the field.

• **DEPENDABILITY**. . . performs under the most severe and rugged field conditions—meets with Standard A. P. I. Testing Procedure for *drilling* and *production* plug valves.

• **DURABILITY**. . . body forging and adjusting nut of heat treated alloy steel is designed for greater dependability, minimum weight and maximum strength, passing destruction tests of 35,000 psi . . . split-tapered inserts permit easy one-time adjustment.

• **LOW TORQUE**. . . extremely low torque required makes valve more easily operated. Torque is reduced by use of a balanced cylindrical plug which is not subject to longitudinal loads. Simple adjustment sets the valve for the correct operating torque.

• **VERSATILITY**. . . performs with highest efficiency in all liquid, gas and slurry applications . . . in cementing, drilling, fracturing, acidizing, mud systems and numerous other applications.

• **AVAILABILITY**. . . immediate shipment of 1″ or 2″ sizes with split-tapered inserts in either non-ferrous alloy or durable cast iron direct from the factory at Duncan, Oklahoma.

Call your local Halliburton Representative . . . ask him for prices and new brochure on the "LO-TORQ PLUG VALVE" by Halliburton.

HALLIBURTON
CEMENTING SERVICES

"EXPERIENCE AND KNOWLEDGE . . . THE HALLMARK OF HALLIBURTON SERVICE"

HALLIBURTON OIL WELL CEMENTING COMPANY • DUNCAN, OKLAHOMA

er Spanish regalia, presented a mighty attractive picture. Dee and Sally Taylor came all the way up from Balboa Bay and the El Morro Beach vicinity with their entire colony of younger Taylors & Peytons, all dressed strictly in the mode, and looking for all the world like a wealthy ranchero and his lady, with an expansive and good looking brood. They were joined by Fay and Olivia Wright, as a handsome Mexican general and his ladylove. The sensation of the evening, however, were Art and Laverne Huey who were attired in the authentic dress of Bolivian Indians, Laverne with a papoose on her black that looked more real than a real papoose. Another outstanding characterization was that of Ray Elner who showed up as a bandido, a red mustachioed one, with a well filled cartridge belt, and all the other piratical accessories and attributes.

Other Fun Makers

Also among those present were Polly Sargent and Spike Oliphant who before this issue of C.O.W. reaches the newstands will be married and honeymooning in Hawaii. Bob and Bess Eiche were on deck with the Ed Harrises, the later made up, accidentally perhaps, as Fidel Castro. Then there were the Harry Hesters, Don Halls, Scott Roberts, Jerry Fishers, Harry Ackers, Earl Daniels, Link Warrens, Tiny Bushes, Hal Coops, Al Woodards, Paul Medearises, Sam Grinsfelders, Bill Wileys, Barney Lindsays, Cliff Sandlands, Bob Bungays, Ed Lemen, Dwight Vedders, Tom Johnstons, Lew Bronzans, John Kerfoots, Stan Siegfuses, Clayton Stephens, Aden Hughes, Ted Lees, and so on ad infinitum. It was a most hilarious affair and everyone had a wonderful time. It is by all means an annual must on the Petroleum Club's social calendar and this year's edition did a great deal to assure its perpetuation.

World Travelers Return

The Kinzie Millers are back from a globe circling tour and Kinzie is all excited about the first annual United Arabian Republic Oil Exposition in Cairo, Egypt, which he found extremely interesting. There were many petroleum people in attendance, not only from the U.A.R., but from other oil interested countries. He found the exhibits excellent, especially those of the American oil, supply, and service companies. Incidentally, while there, the Millers met Dorothy Bell in the lobby of the Nile Hilton and had dinner with her. We had a card from Dorothy at Cairo in which she spoke of dining on Farouk's yacht now, we understand, converted into a cafe. She had just enjoyed a stopover in Lisbon which she loved and was about to leave the time she wrote for a visit in London, England.

More Overseas Stuff

Have a card, also, from Frank Morgan, written somewhere in France whence he was backtracking to Spain to take care of a bit of business. From there he planned to hop to Australia and eventually get home in time to see Bob Paradise and Frank's substitute, Laurence Green, breeze down the home stretch in the Los Angeles Petroleum Club domino tournament. Speaking of Australia reminds us of the cute story about the little Australian boy who received a new boomerang for a birthday gift, and it took him a year and a half to throw away his old one. While we are speaking of travelers, we had a note from Swede Larson, datelined from Monte Carlo where he was apparently trying to recoup after doing France, Spain, Portugal, and Italy, and a fair swath of the Continent. Also on the subject of travel, Herb Maland, the number one associate of R. J. Eiche & Associates, was here from New York recently, and with Bob made the rounds of the local manufacturers whom they represent worldwide. Herb is a fine young chap with a wonderful personality who is widely known and well regarded here on the west coast as well as in New York.

Bits of This and That

By way of last minute roundup, the Nomads Annual Whing Ding takes place at Lakewood Country Club on Friday, July 17, 1959. Elmer Decker was presented with a plaque by the Nomads Board of Regents at the International Petroleum Exposition in Tulsa, in recognition of his part in the founding of the organization and as a subsequent builder of consequence. Our congratulations to Elmer! Ottumwa should be proud. The officers of the Western Pipe Liners Club are Tony Alcorn, president; Ed Saunders, vice president; and Johnny White, secretary-treasurer. Since the last edition of the Grapevine we have lost two grand pioneer oil men in the persons of Julius Lehman, one of our favorite people. Julius never missed a PPP meeting and was always a cheerful, good natured chap, who will be sorely missed by his buddies. The PPP has something to remember him by for a long time to come, for just a short time before his death he fashioned a gavel for the use of the president and it is now adorned with an inscription stating the circumstances under which the gift was made and, of course, the name of the donor. The other loss was an old friend of ours from Union Oil Company, Ralph Putnam, who passed away recently. Ralph, as nearly as we remember was superintendent up in the Rocky Mountain area for a time, but had been retired for a number of years. He was a modest, quiet - mannered, gentlemanly sort of person, and we treasured his friendship highly. Our sympathies go out to the families of these fine gentlemen. Congratulations to John Bell, former manager of Humble Oil & Refining Co.'s California operations, who has been made production manager of the Gulf Division with headquarters in Houston; to Dick Faggioli who has been appointed acting manager here; and to J. R. Jackson, who succeeds Dick as acting area geologist! The same to Nick Van Wingen who was married a short time ago to Marilyn Gillespie at Las Vegas! Which is all for now, hasta la vista!

Standard Awards Scholarship to 4-H and FFA Winners

Standard Oil Company of California, Western Operations, Inc., has awarded a total of ten scholarships worth $3,000 to winners representing 4-H Clubs and Future Farmers of America Chapters in this area.

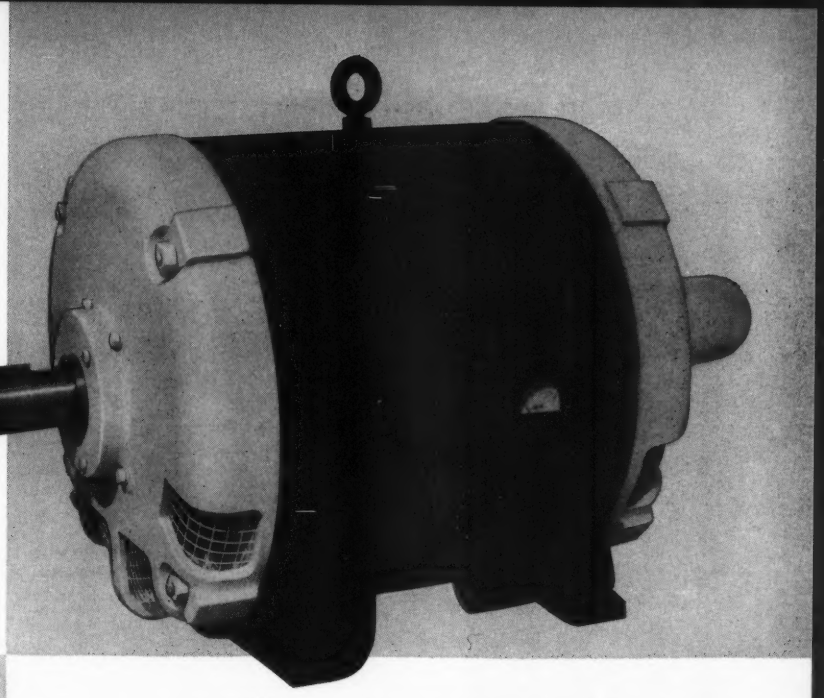
K. W. Kendrick, Standard's regional vice president, presented the scholarships, each with a value of $300 to five 4-H Club winners and five FFA winners at an Awards Luncheon held at the Ambassador Hotel attended by the winners and parents, Advisors and 4-H and FFA officials. Dr. Julian A. McPhee, president of California State Polytechnic College, was the featured luncheon speaker.

The scholarships awarded May 17 are a part of the 88 agricultural scholarships given each year by Standard.

New Headquarters For Time Oil Co.

C. Edward Miller, chairman of the board, Time Oil Co., has announced the purchase of a new building at the southwest corner of Wilshire Blvd. and Orange Drive, Los Angeles, where the company's main office will be located. It is anticipated the move will be made this month.

Continental-Emsco Green Triangle ELECTRIC PUMPING MOTOR



BUILT-IN BALANCE METER

- **5-8% SLIP**
- **275% STARTING TORQUE**
- **GUARANTEED 1.15 SERVICE FACTOR**
- **40°C RISE**

See these motors at your nearby Continental-Emsco store . . or let your C-E representative show you how they will reduce your electrical pumping costs. Bulletin available on request.

The first electric motor DESIGNED EXCLUSIVELY for oil field pumping

SAVE ON MAINTENANCE COSTS There's a built-in BALANCE METER on these motors that makes it easy to maintain good counterbalance. This lessens wear-and-tear on well equipment, reduces maintenance and costly downtime. A pumper can tell *at a glance* if the well is pumping satisfactorily. Neither an engineer nor special instruments is needed. Other *exclusive* design characteristics give cushioned peak demands for increased life of belts . . bearings . . well equipment.

SAVE ON POWER COST By checking the balance meter for uniform needle readings, the pumper is assured of maximum lifting efficiency at the lowest possible electrical cost. Motor has 5-8% slip and 275% starting torque with 1.15 *guaranteed* service factor . . 40°C rise. This can lower peak current demands and power costs.

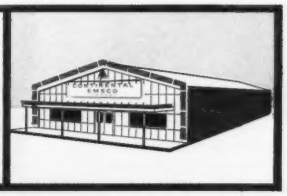
SAVE ON INSTALLATION COSTS All the flexibility you need for easy, fast installation is incorporated in these motors. Double shaft extension is standard. Motor drives from both sides . . rotates in either direction . . leads can enter from one side or the other. An oversized, diagonally-split conduit box provides plenty of room for power line connections. Hold-down bolt holes are 21/32" *for every motor size,* so bolts furnished with unit pumper can be used . . regardless of type or manufacture.

Many other features make C-E Green Triangle Electric Pumping Motors *completely oil field* . . from the base up. Weather-guarded frame and uni-directional air cooling system assure maximum efficiency under all weather conditions. Motor sizes from 3 through 75 horsepower (900 or 1200 r.p.m.) are available.

For Service that Sings . . Equipment that Hums . . Go . .

CONTINENTAL-EMSCO

Serving the Oil and Gas Industries ... Worldwide



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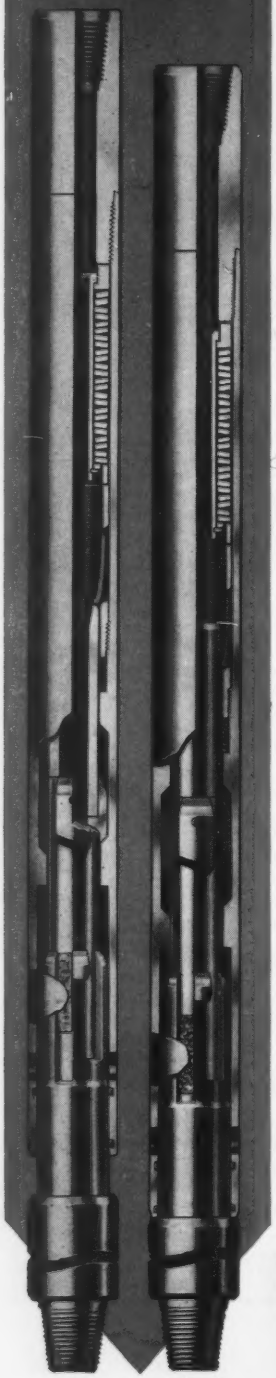
For running in the drill string . . .

Positive JAR-DOWN ACTION

. . . plus Safety Joint protection!

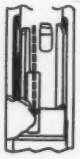


See the Shaffer section of your Composite Catalog.

THE SHAFFER-WAGGENER BUMPER SAFETY JOINT

There is no other tool like the Shaffer-Waggener Bumper Safety Joint. It combines—in ONE tool—a choice of *jar-down* and *releasing* actions, both under complete control of the operator. What's more, the tool is so rugged it is run as part of the drill string to protect against stuck pipe.

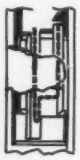
In actual well service it has operated easily at depths below 18,000 feet, and has given no operating problems even in directionally-drilled wells with extreme slant.



Jar-Down Action

▶ **RUN IT IN THE DRILL STRING**—It is specifically designed to withstand the continuous vibration and heavy torque loads of today's drilling operations.

▶ **TO JAR DOWN** whenever the drill pipe threatens to stick—or to drive drill collars out of keyseats and to free 'balled-up" bits—simply slack off weight equivalent to about 2,000 feet of drill pipe onto the tool. This releases the tripping mechanism, automatically striking a sharp down blow. Raising the string automatically re-sets the tool for another blow—and blows can be struck repeatedly as fast as the string can be raised and lowered. And no torque or twisting strains are placed in string!



Releasing Action

▶ **TO RELEASE,** in the event jarring will not loosen the stuck string, simply trip the tool and apply reverse torque as the string is slowly raised. Only one-sixth turn of the tool rotates the drive keys into unlocking slots so that complete release is effected by continuing to raise the string.

ANOTHER ADVANTAGE—the tool transmits full torque loads in *either* direction through three rugged drive keys—not through easily-damaged threads. It is the strongest joint in the string—not the weakest, as with conventional safety joints.

Also, the tool can be re-connected again by simply lowering the top portion over the lower portion and reversing the releasing action. It is ideal for use in fishing strings!

Free 8 page bulletin gives the full story on the Shaffer-Waggener Bumper Safety Joint. Write for it—or ask your nearest Shaffer representative.

SHAFFER

HIGH PRESSURE DRILLING AND CONTROL EQUIPMENT • FISHING TOOLS THAT EXCEL

SHAFFER TOOL WORKS, Brea, California • California Service Shops: Santa Fe Springs and Taft
HOUSTON, TEXAS, 6006 Navigation Blvd. • ODESSA, TEXAS, 1925 West Second Street
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FARMINGTON, NEW MEXICO, Shaffer Tool Works, Post Office Box 1788
CASPER, WYOMING, Shaffer Tool Works, Post Office Box 827
HOUMA, LOUISIANA, Shaffer Tool Works, 5007 Fifth Avenue, New York, N. Y. U.S.A.
EXPORT SALES OFFICE, Shaffer Tool Works, 500 Fifth Avenue, New York, N. Y. U.S.A.

36 years OF OIL TOOL LEADERSHIP

NEW LITERATURE

New API Book on Cements Available

Availability of new editions of the American Petroleum Institute specifications and testing procedures covering oil well cements and cement additives was announced recently by the API's Division of Production.

The new specifications are contained in the Sixth Edition of API Standard 10A "Specifications for Oil Well Cements and Cement Additives." This standard has been expanded over previous editions by the inclusion of specifications covering bentonite and barite as cement additives. Other major revisions include a new schedule of thickening times and improved strength requirements. Corresponding revisions have been made in the new (Eighth) Edition of API RP 10B—"Recommended Practice for Testing Oil Well Cements and Cement Additives."

These new publications are the result of intensive efforts by the Division's Committee on Standardization of Oil Well Cements.

Copies of these new publications may be obtained from the API Division of Production, 300 Corrigan Tower Building, Dallas, Texas, at 50 cents each for Std 10A; 75 cents each for RP 10B.

Porous Media Explored in New Film

The dynamic interaction of oil and water in a sand matrix is vividly depicted in "Laboratory Research on Fluid Flowing Through Porous Media — Surfactants in an Oil-Water-Sand System," a twenty minute color movie available for loan from Halliburton Oil Well Cementing Co.

Particular emphasis is placed in the film on water block mechanism. The effect of surface active agents on such a system is shown and some provocative examples of emulsion morphology and interfacial film formation in consolidated and unconsolidated porous media are included One sequence of emulsion formation filmed at high speed 1000 pps is particularly noteworthy.

Those interested in borrowing this movie should write to: Keith James, Technical Center, Halliburton Oil Well Cementing Co., Duncan, Okla.

Union Expects Earnings to Increase

Union Oil Company of California earnings for 1959 should surpass the company's earnings last year, A. C. Rubel, President, said recently.

Pointing out that it was not Company policy to predict earnings, Rubel said his declaration was being made in an effort to correct misunderstandings which may have arisen from recent news stories which had guessed that the Company's profits would decline this year from 1958.

Union Restores Production; Reports on Alaska

The Union Oil Company of California has initiated a program to restore some of its shut-in production in several fields in California. Upon completion the company's production will be increased by some 4,500 barrels per day.

The joint-interest test with The Ohio Oil Company in Alaska on the Kenai Peninsula is preparing to spud. Difficult road conditions slowed down the moving of the rig and drilling equipment to the well site. Two geological surface parties that recently left Los Angeles for a summer reconnaissance survey are already in the field working on the first assignment and will supplement three seismograph crews already in the area.

UOP Forms New Chemical Products Development Dept.

Universal Oil Products Company has formed a new chemical products development department, David W. Harris, board chairman and chief executive officer, announced.

The move is part of UOP's program to intensify efforts in developing new chemical products and enlarging its present product line for sale to the petroleum and other industries, he said. In addition to refining catalysts, UOP manufactures corrosion inhibitors, fuel additives, rubber antiozonants and antioxidants for food and other applications.

Manager of the new department is Richard J. Schoenenberger, formerly manager of UOP's McCook, Ill., manufacturing plant. He will be assisted by John O. Iverson and Frank Stolfa. Mr. Schoenenberger will report to Marcus R. Schrein, vice president of manufacturing.

For fishing, testing and core-drilling strings . . .

. . . plus Safety Joint protection!

Positive JAR-UP ACTION

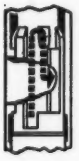
THE SHAFFER OIL-SEALED JAR SAFETY JOINT

The Shaffer Oil-Sealed Jar Safety Joint is the only tool that combines a choice of *jar-up* and *releasing* actions, both under complete control of the operator at all times. What's more, all operating parts are sealed in a chamber filled with clean oil, fully protected against mud, sand and corrosive fluids.

The sealed-in-oil protection not only safeguards against abrasion and corrosion, and minimizes pressure differentials on packing elements, but also insures constant operating characteristics at all depths. This makes the tool ideal for fishing, testing and similar strings where light connections and equipment are used!

Jar-Up Action

▶ **JARRING ACTION IS AUTOMATIC**—simply raise the drill string until tension equals the pre-set tripping load, whereupon a sharp up blow is struck. Lowering the tool automatically re-sets the tripping mechanism for another blow—and repeated blows can be struck as fast as the string can be raised and lowered.



Releasing Action

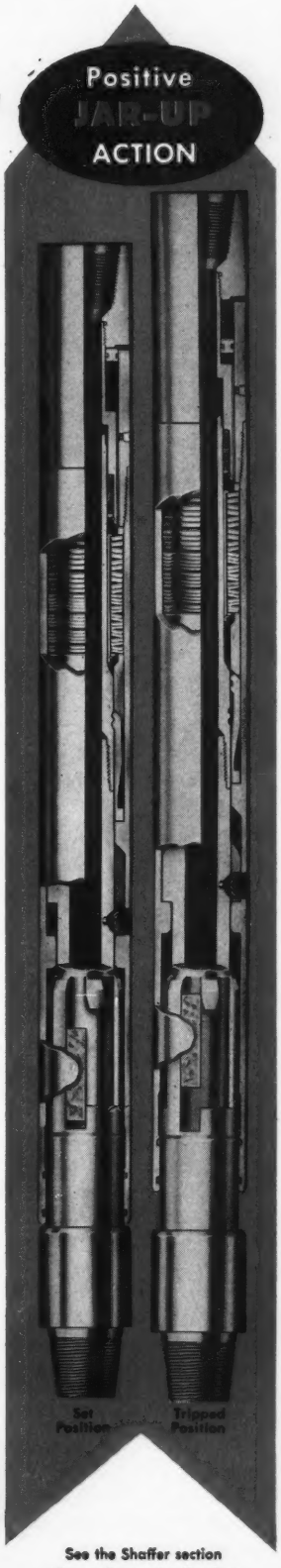
▶ **ONLY STRAIGHT PULL** is necessary to operate the tool—no torque or other secondary operations to affect the light connections commonly used in fishing, testing and coring strings.

▶ **TO RELEASE,** in the event the fish or stuck string cannot be loosened, simply trip the tool and apply reverse torque as the string is slowly lowered. Only one-sixth turn of the drive keys rotates them into an unlocking slot whereupon raising the string allows the parts to unlock.

AND NOTE THIS—not only does the tool transmit full torque loads in *either* direction, but no threads are used in the releasing mechanism. Therefore there's no risk of torque over-tightening the tool—nor can reverse rotation accidentally release it.

Also, force of the blow is absorbed by integral knocker heads—not by easily damaged drive keys or threads. The tool is designed for *sustained* jarring operations. And since it does not depend upon friction for its tripping action, the Jar Safety Joint always operates with the same pre-set action. Light strings are not subjected to unpredictable loads!

Free 8 page booklet gives many other facts about the Shaffer Oil-Sealed Jar Safety Joint. Write for it—or ask your nearest Shaffer representative.



See the Shaffer section of your Composite Catalog.

McCullough Tool Opens New Dist. Office in North Dakota

I. J. McCullough, president of McCullough Tool Company has announced the opening of a new district office at Williston, North Dakota. From this office McCullough will provide nuclear logging, jet and bullet perforating and all types of wire line services. Experienced field personnel and complete equipment have been provided to render around the clock service to the oil industry in the Williston Basin.

Loren Ashley will be in charge of the newly created district. He has been with McCullough for over 5 years. Aiding Ashley is Bill Newashe, assistant district manager.

Vibro-Frac Service to Be Available in North Africa

A recent company to add overseas services is Petroleum Tool Research, Inc. of Fort Worth. Originators of the explosive well stimulation method known as Vibro-Frac, Petroleum Tool Research, Inc. is using its service in the Sahara areas of North Africa.

According to Henry Mohaupt, president of Petroleum Tool Research, Inc. the first shipment of equipment will arrive in North Africa within the month. This is the first time this service has been available outside the United States, Canada and South America. Lane-Wells Company in the United States and Petro-Tech Service C.A. in Venezuela are licensed by Petroleum Tool Research, Inc. to offer this explosive stimulation service with standard perforating trucks.

"Vibro-Frac service can be performed on any location where a conductor wireline is available," said Mohaupt. "This makes it practical to Vibro-Frac almost any well in the world."

The process utilizes a specially designed, retarded explosive which, when activated under a fluid column, generates rapidly oscillating pressure waves consisting of a large number of impulses or vibrations. These vibratory pressures cause minute movements in consolidated formations normally resulting in horizontal fractures. At the same time the fluid present in the well bore and that generated when the charge is initiated are injected into the formation at extremely high rates. This tends to extend the fractures formed by the vibratory stresses. The energy released by the Vibro-Frac charge is in the order of several million foot pounds, and all this energy is released at the point of placement. The high pressure peaks of the vibratory pressure waves, while higher than normal pump pressures, are extremely short duration, minimizing the possibilities of damage to the casing.

Pauley Petroleum Acquires Newhall Refining Co.

Pauley Petroleum Inc., independent oil and gas producers, have acquired by purchase the Newhall Refining Co., Inc., Newhall, California, it was jointly announced this month by Edwin W. Pauley, president of Pauley Petroleum Inc. and W. D. Parks, president of Newhall Refining Co. The amount of the purchase price was not disclosed.

Marking the entry of Pauley Petroleum into the refining field, the plant was purchased from co-owners William D. Parks and E. A. Ericson, both of Newhall, who had operated the refinery profitably each year for 28 years. Parks will remain as president and operating manager, Pauley said. The refinery is designed and equipped for the production of all asphalts and all specifications of road oil.

In conjunction with the acquisition, Pauley said an expansion program has been started which will increase refining capacity in excess of 50% of its current rate in addition to upgrading the quality of its products. Further expansion is programmed for the immediate future.

Pauley said the refinery would continue to operate with the same personnel, and under the name of Newhall Refining Co., Inc. a wholly-owned subsidiary of Pauley Petroleum. At the present time the refinery employs about 50 persons and operates a fleet of tank trucks as well as asphalt and road oil spreading equipment.

Pauley Petroleum executives Raymond Kerr and Edwin Pauley, Jr., will serve as vice presidents of the refining company.

Pauley was formerly president of The Petrol Corporation which was one of the largest manufacturers of asphalt in the western United States.

Supply Firm Announces Opening of 3 Calif. Stores

Continental-Emsco Company, a division of The Youngstown Sheet and Tube Company, announced recently the opening of three new supply stores in California. These stores, located in Bakersfield, Ventura and Los Angeles, will be completely integrated supply facilities servicing the needs of the drilling and production operations in California.

Frederick M. Mayer, president of the oil supply firm, stated that his company's confidence in the long-range future of the southern California oil and industrial markets prompted the opening of these facilities. These new supply stores will be in addition to those Continental-Emsco D+B stores now operating in Long Beach, Santa Fe Springs, Coalinga, Taft, Oildale and Ventura.

Signal to Acquire Texas Firm

Signal Oil and Gas Company announced recently that it is working out details of an agreement to acquire Eastern States Petroleum and Chemical Corporation of Houston, Texas.

In this transaction Signal will acquire a complete, modern, 60,000-barrels refinery, a petro-chemical plant, and a research center located in Houston, Texas, as well as deep water marine terminals and an interest in the Rancho Pipeline which extends from West Texas to Houston.

Eastern States is one of the oldest independent oil companies in the Gulf Coast area, having been established over 27 years ago.

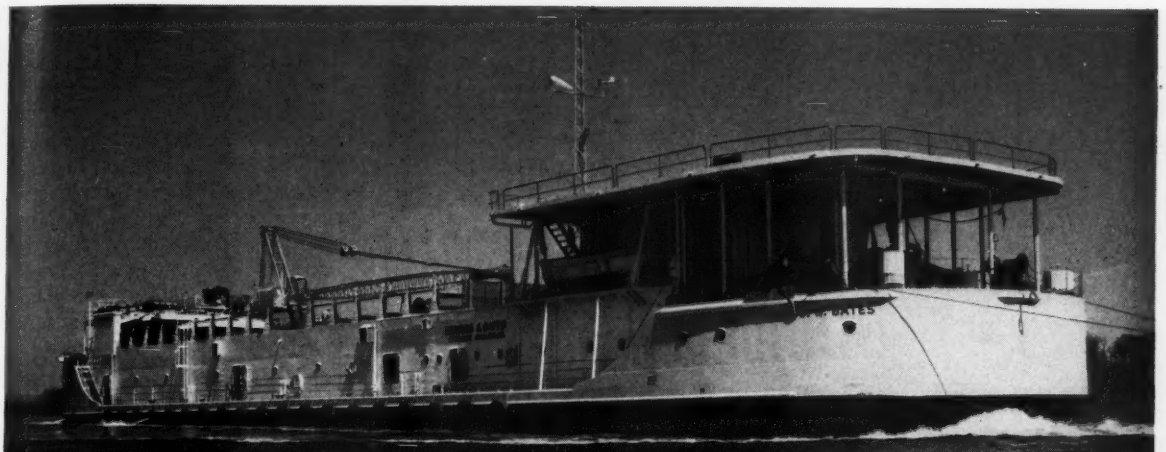
In a joint announcement by Samuel B. Mosher, chairman of the board and chief executive officer, and Russell H. Green, president, of Signal, it was stated that the agreement provides only for an exchange of stock.

The announcement further stated:

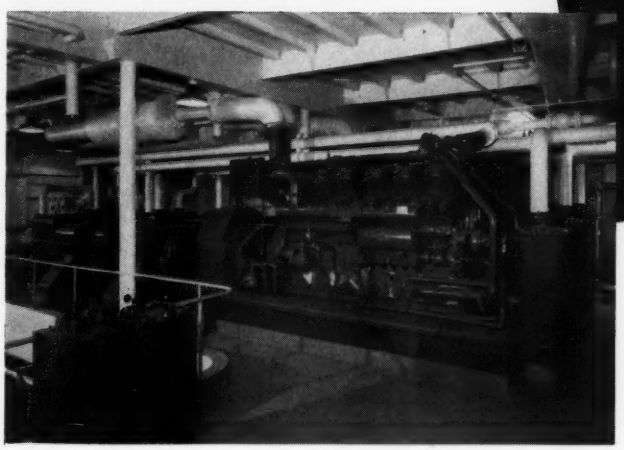
"As the West Coast's leading independent oil company, we are happy to join forces with one of the largest independent refining and petro-chemical companies in the Gulf Coast area. Eastern States' refinery and facilities will supplement Signal's own widespread operations and enable the organization to become an integrated company, marketing and exchanging its products throughout the world."

READING & BATES Offshore Drilling Company

OFFSHORE DRILLING TENDERS



have WAUKESHA *Turbocharged* DIESELS



(above) Drilling tender J. W. Bates uses (*left*) three WAUKESHA Model VLRDBS Turbo-Supercharged DIESELS—12-cylinder, 60-degree vee, four cycle, 8½ x 8½-inch bore and stroke, 5788 cu. in. displacement, with counterbalanced crankshafts. Send for Bulletin 1663.

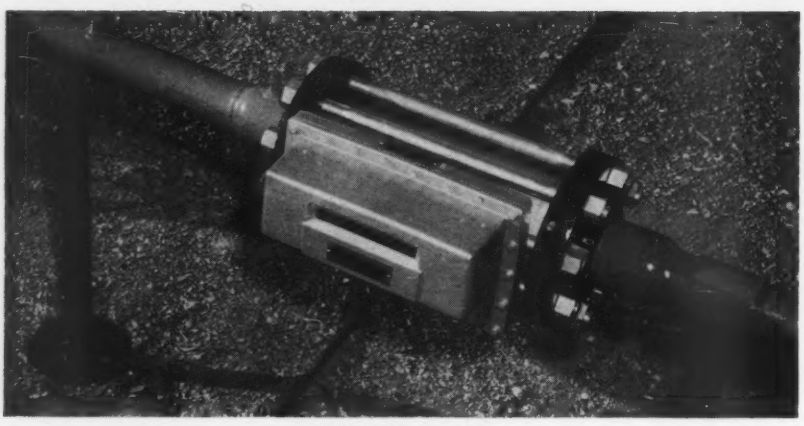
Reading & Bates Offshore Drilling Co., of New Orleans and Tulsa, have two drilling tenders, the *J. W. Bates* and *George M. Reading*—260′ long; 54′ wide; molded depth, at sides, 16′3″. The tenders operate offshore, one in the Gulf of Mexico, the other in the Gulf of Persia, at a distance of 40-75 miles. Both use Waukesha V-12 Turbocharged Diesels.

Pictured above are the tender *J. W. Bates;* and its three VLRDBS Waukesha V-12 Turbocharged Diesels driving the National Supply Company's largest mud pumps (No. 2-G-1000) through a three-section National gyrol compound with two-speed drive.

An official of Reading & Bates says, "The Waukesha V-12 Turbocharged Diesels, through their dependability and economical operation have earned the confidence and approval not only of the drilling crew personnel but of the entire Reading & Bates organization."

416

WAUKESHA MOTOR COMPANY, WAUKESHA, WISCONSIN / New York • Tulsa • Los Angeles
Factories: Waukesha, Wisconsin and Clinton, Iowa



4" Mass Flowmeter

"True Mass" Flowmeter Measures Fluids in Pounds

The long search for a practical instrument to directly measure gas and liquid flow in pounds has resulted in the development of a "true mass" flowmeter, according to a joint announcement by Black, Sivalls & Bryson, Inc. and the General Electric Company. The simple, low-maintenance device precisely measures the weight of flowing fluids with high accuracy over wide ranges of flow rate, pressure, temperature and density. It does this without additional measurements and corrections for these variables, the two companies revealed.

First production units are expected to be available early in 1960. Prototype production units will be field tested in various natural gas services throughout the balance of this year, according to Kenneth W. Lineberry, President, Black, Sivalls & Bryson, Inc. Marketing in the petroleum and natural gas industries will be handled by BS&B who cooperated with General Electric in the development of the meter and handled the proving out of the instrument for measurement of natural gas.

"A broad range of application is found for the meter in the natural gas industry—at the wellhead, and in pipeline gathering, gas transmission and pipeline distribution systems," Mr. Lineberry pointed out. "The mass flowmeter will provide the industry with a means for absolute flow measurement with sustained high accuracy. It will reduce the expense involved in the computing operations required in measurement by volume."

New Unit X-Rays 40 Feet Of Pipe Per Minute

A new machine which can radiograph every inch of every weld in a 40-foot length of pipe in less than one minute has been announced by the Travel-Ray Corporation of Houston.

The new equipment, trade-named "Travel-Ray," incorporates an X-ray tube of patented design which projects a narrow beam of parallel rays only, permitting radiography of the longitudinal welds in pipe sections while the X-ray source is in motion. The relative speed of the machine virtually eliminates the "scatter" radiation problem inherent in stationary radiography by conventional techniques. Sensitivities of 1 to 1.5 percent are obtained as a result.

The new "Travel-Ray" unit.

Byron Donzis, Travel-Ray president, compared his X-ray projector to a spotlight which produces only parallel light rays and casts sharp shadows free from distortion or magnification.

According to Donzis, Travel-Ray is the first practical method of radiographing every inch of every weld, both longitudinal and circumferential, at speeds up to 40 feet of pipe in 45 seconds. Pipe can be Travel-Rayed at the mill, in the field, at river-crossing sites, and elsewhere, vastly accelerating pipeline operations at every stage. The Travel-Ray equipment can also be used to radiograph only circumferential welds if desired, which it does much more rapidly than conventional equipment.

The equipment is easily adjustable for pipe diameters from 12 through 36 inches, features special six- and 12-wheel drive crawlers, and offers variable band width, speed, and power up to 250 Kilovolts. A quick-disconnect cable eliminates the need for reversing the motor at the end of the pipe section.

New Method for Plate Testing Developed

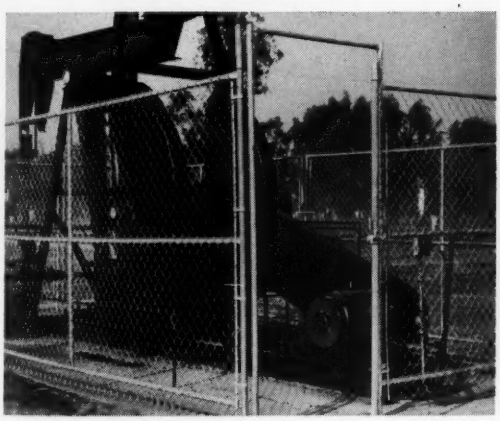
Sargent Engineering Corporation has developed an improved electronic method of testing the thickness and concentricity of plating on hard metal sprayed plungers.

The seamless steel tube is given a coating of hard chromium plate or sprayed hard metal, and centerless ground to precision size and polished finish. Each plunger is then electronically tested to guarantee adequate uniform depth of the chrome plate sprayed hard metal on the entire wearing surface of the plunger.

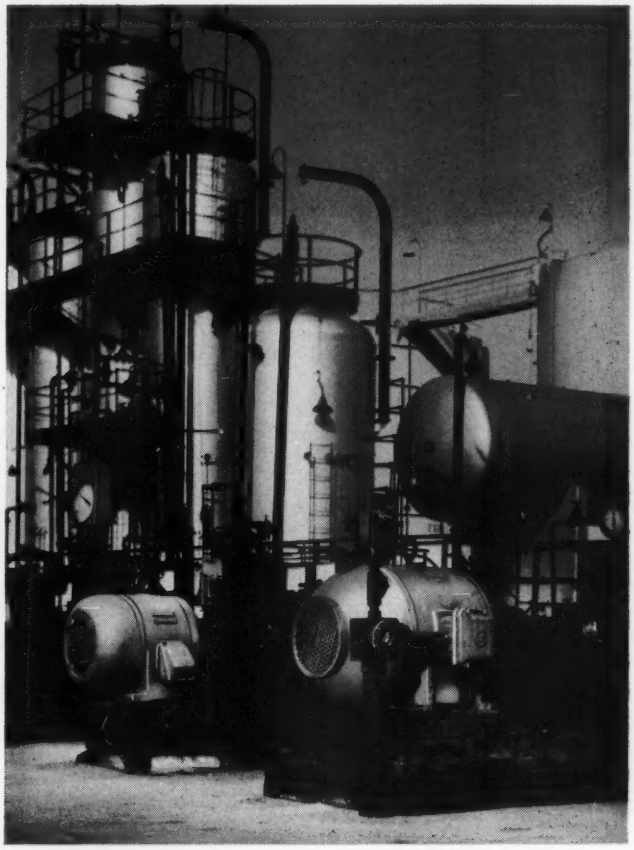
Memo to Management:

ELECTRIC EQUIPMENT DOES THE JOB BETTER FOR A SMALLER INVESTMENT COST

...IN PIPELINE OPERATION



...IN PRODUCTION



...IN REFINING

Oilmen everywhere are switching to electric equipment for *all* phases of operation... and for good reason. Modern electric equipment costs less, reducing initial investment costs. It's safer. It requires less supervision and maintenance. And it's far more reliable.

You save all the way around when you go all electric. Especially since Southern California Edison rates are among the lowest in the country.

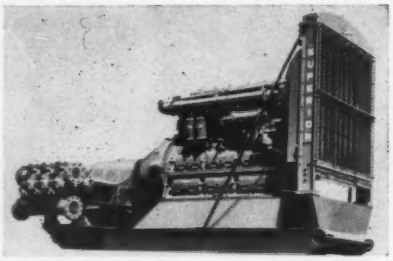
Get full details. Call your nearest Southern California Edison office for complete information on how electricity will work efficiently for far less money in your fields and refineries. Why not do it today?

SOUTHERN CALIFORNIA Edison COMPANY *helps you* LIVE BETTER—ELECTRICALLY

White Introduces New Engine-Pump Waterflood Unit

A complete waterflood package—engine and pump with capacity up to 23,600 barrels per 24 hour day—is now being marketed to the petroleum industry by the White Diesel Engine Division of The White Motor Company.

The engine is a four cycle, six cylinder Superior G-510 that operates on natural gas or propane within the 190-400 BHP range. An improved combustion chamber with greater piston



White Superior G-510 engine with pump.

thrust provides high compression with marked fuel economy, the lowest cost per horsepower hour of any gas engine in its field, according to the company.

Directly connected to the engine through a flexible coupling is an "Oilwell" #368-P Triplex pump operating with 5½" to 6½" plungers over the 600-840 PSI range. Reduction is handled within the pump itself, eliminating the need for an intermediate gear.

An "Oilwell" #358-P, with 3¼" to 5" plungers, may also be directly connected to the engine when higher working pressures (1020-2410 PSI) are required; output of the #358-P is up to 13,970 barrels per day.

White Diesel reports a good match between engine and pump. The pump's requirements of 266 HP at 810 RPM continuous on the input shaft of either model is well within the engine's range, and ample reserves are built into the engine for use on demand.

White is able to offer a choice of automatic starting, remote controls, or any tailored control desired for this application.

Equipped with a radiator for heavy duty oil field service, the compact unit is only 15 feet long; without radiator, length is less than 14 feet.

AiResearch Turbochargers Boosting Richfield Oil's Compression Facilities

Richfield Oil Corporation is adding the equivalent of a new plant generating nearly 9,000 horsepower at its gas compression facilities in the Bakersfield and Cuyama Valley, California, areas. Yet no additional space or building is required.

Source of the additional power is the turbocharging of 30-odd Clark gas engine compressor units. Utilizing a method applying multiple AiResearch turbochargers per engine, nearly half of the units have already been converted.

The original project was carried out as a result of a carefully planned experimental program in conjunction with The Garrett Corporation's AiResearch Industrial Division, of Los Angeles.

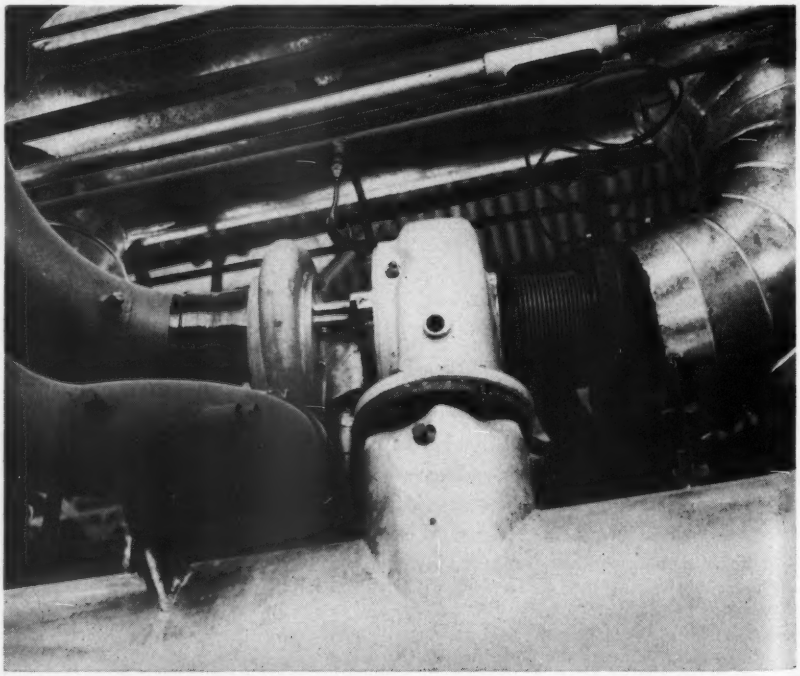
Small, high production type AiResearch turbochargers are adding a healthy 25% to 35% increase to the normal power ratings of a variety of Clark engine models, efficiently and economically. More than 120 turbochargers will be operating ultimately in the project.

The natural gas-fuel engine compressors include seven different Clark models. They are pumping natural gas from wells and plants around the clock every day of the year.

The original multiple installation, made on a Clark MA-8 compressor in April, 1957, provided AiResearch and Richfield with early test data that has been duplicated consistently by subsequent installations.

Basically, the turbochargers, powered by the energy of engine exhaust gas, move an abundance of high density air into the engine cylinders. This accommodates additional fuel, providing not only increased power but reduced specific fuel consumption. One intermediate step, passage of the air through an AiResearch intercooler before it reaches the intake manifold, aids in increasing the inlet air density and decreasing its temperatures. The lower temperatures prevent detonation in the spark ignited engines even at the high horsepower increases.

From the results of the joint AiResearch/Richfield engineering experimentation and studies, Richfield designed and fabricated appropriate exhaust manifold and intake ducting systems to meet its turbocharging needs. Installation has been carried out with care and precision.



Closeup of AiResearch turbocharger installation on gas engine. Manifold below directs exhaust gas to turbine wheel on right side of turbocharger. Gas is then vented out to the right. Ambient air reaches turbocharger's compressor wheel through upper ducting on left, then is moved to engine intake manifold through lower ducting on left.

Encouraged to Learn the Joy of Discovery

To a youngster, the whole world—from sea to stratosphere—is his to explore. From his searching . . . studying . . . questioning, he occasionally grasps the meaning of what he sees. It is then—when he uncovers for himself a bit of the wonders of nature and science—that he experiences the joy that comes with discovery.

Today, educators in schools and universities believe, as we do, that it is important to encourage young people to pursue their interest in science. General Petroleum, in line with this belief, provides for school-age youngsters the film "In the Beginning," a geologic history of the earth . . . helps with the teenagers' Science Fairs and donates a total of 13 undergraduate and graduate scholarships in the fields of petroleum engineering, geology and geophysics.

These are just some of the many efforts that General Petroleum is making to benefit our younger citizens, and in the process help them to learn that the joy of discovery need not be restricted to childhood alone.

General Petroleum Corporation
A SOCONY MOBIL COMPANY

Mobil

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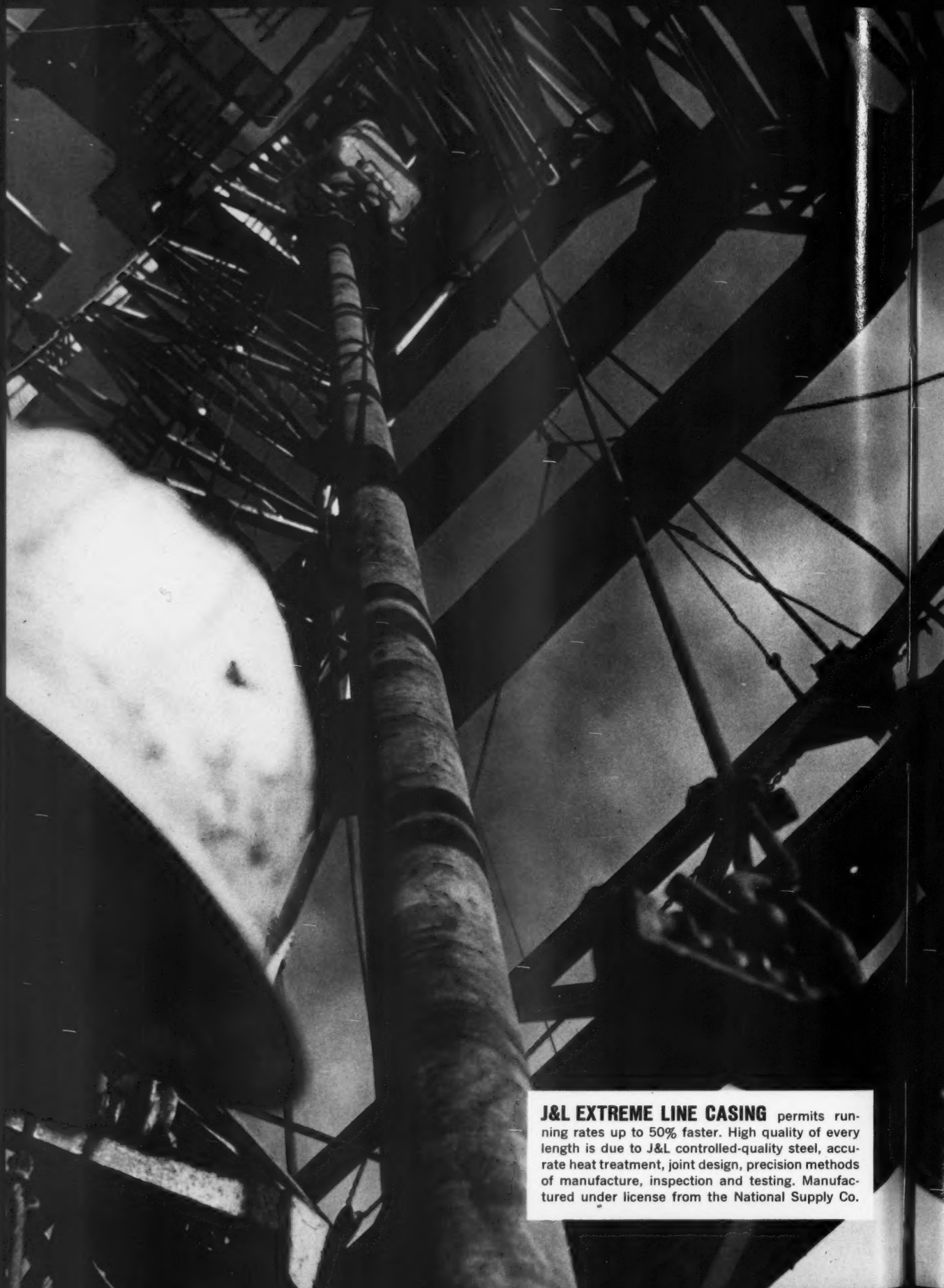
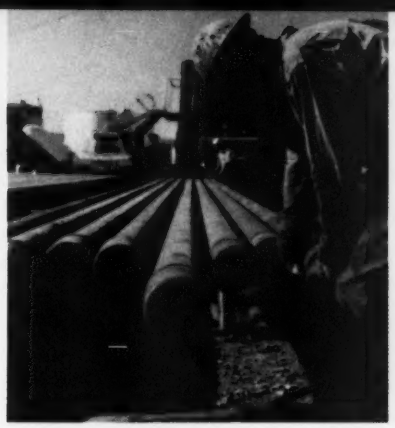


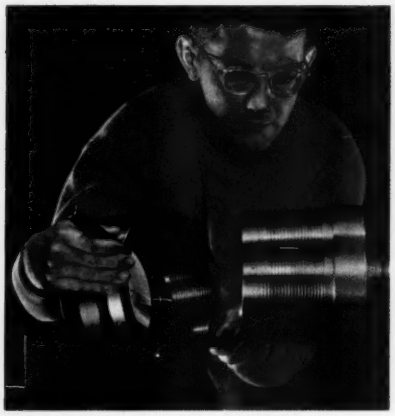
J&L EXTREME LINE CASING permits running rates up to 50% faster. High quality of every length is due to J&L controlled-quality steel, accurate heat treatment, joint design, precision methods of manufacture, inspection and testing. Manufactured under license from the National Supply Co.

Drilling operations have proved the value of J&L Extreme Line casing at this North Dakota well.

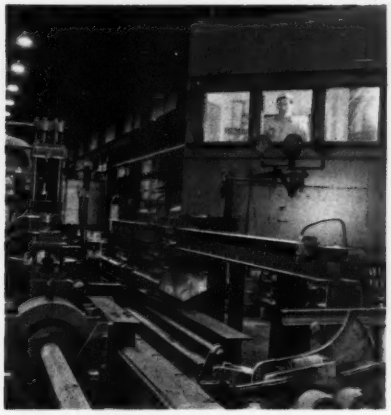


This high strength Extreme Line casing is 5½ inch O.D., 17 lb. per ft., Grade N-80.

Integral joint of this J&L Extreme Line casing gives smoother running.



Precision tooling and careful inspection of Extreme Line casing joints hold tolerances within closely specified limits.



This hydrostatic tester is typical of thorough testing equipment used to inspect every length of J&L Extreme Line casing.

High-Pressure, Deep Well Drilling Demands J&L Extreme Line Casing

. . . states a large drilling operator in North Dakota

Drilling operators know that high pressures encountered in drilling deep wells call for special quality casing—casing designed for high strength, leak resistance, and fast running. Extreme Line casing, made by Jones & Laughlin, meets these demands.

MAXIMUM JOINT STRENGTH. A modified Acme-type thread assures a strong interlock because it overcomes the tendency of the mating threads to slide out of engagement.

RESISTANCE TO LEAKAGE. The seal consists of a curved surface extending beyond the male threads, and a tapered conical seat beyond the inside end of the female threads. The seal holds even though the pipe body may expand from internal pressure.

HIGH RUNNING SPEED. Running rates into the well are as much as 50% faster than for conventional API T&C casing in the same size and range length. Deeper stabbing reduces the number of turns required for make-up. Less than one turn is necessary from hand-tight to shoulder contact.

Integral joints with upset ends in Extreme Line casing eliminate couplings and reduce the number of threaded connections to one-half that of T&C casing. Specially designed threads minimize hoop stresses by taking tensional loads in shear. The joint has reduced O.D. and is streamlined, internally and externally.

J&L Extreme Line casing is readily available in J-55, N-80 and P-110 grades. Specify J&L Extreme Line for your severe drilling operations. Write for technical data, Jones & Laughlin Steel Corporation, 3 Gateway Center, Pittsburgh 30, Pa.

Jones & Laughlin Steel Corporation

PITTSBURGH, PENNSYLVANIA

John D. Spalding, left, is shown receiving the Silver Knight award of The National Management Association from Harold Briggs, president of the National Supply management club. Mr. Spalding, who is works manager of the Torrance, Calif., plant of The National Supply Company, was honored for his work for the plant, for the management club at the plant, and for the community. It is the third such award made on the Pacific Coast.

Chairmen Selected for N.A.C.E. Region Conference

Chairmen have been selected for the 1959 Western Region Conference of the National Association of Corrosion Engineers, September 29-October 1, 1959 at Bakersfield Inn, Bakersfield, California.

Technical papers pertaining to a wide variety of corrosion control topics will be included in two concurrent programs in eight symposia:

Corrosion in Petroleum Producing, Corrosion in Petroleum Processing, Corrosion in Chemical Processing, Corrosion in Pipe Lines, Corrosion in Utilities, Corrosion in Marine Structures and Equipment, Corrosion in Aviation Industries, and General Corrosion.

Chairmen for the conference are: General conference chairman, R. M. Evans, Standard Oil Company of California, Taft, California; Program chairman, J. W. Wilt, Honolulu Oil Corporation, Taft, California; membership chairman, J. A. Bessom, Richfield Oil Company, Bakersfield, California.

Hospitality chairman, E. A. LeDuc, Darbon Chemical Company, Bakersfield, California; Publicity chairman, A. J. Nierman, Standard Oil Company of California, Taft, California; Facilities chairman, C. J. Smith, Gulf Oil Company, Bakersfield, California; Registration chairman, J. Penner, Magna Products Co., Bakersfield, Calif.; Women's activities chairman, J. P. Mitchell, Jones, Keller, Incorporated, Bakersfield, California.

API Tenth Annual Pipe Line Conference Held

Rugged and accurate equipment has been developed for testing pressure inside oil pipe lines during routine operations, according to research information presented at the annual pipe line conference held in Pittsburgh last month.

The three-day meeting was sponsored by the Division of Transportation of the American Petroleum Institute. More than 500 pipe line and transportation experts from throughout the nation attended.

Development of the pressure testing equipment resulted from a study made by the Gulf Research & Development Co. of Pittsburgh to determine the feasibility of conducting internal surveys of pipe lines. Preliminary findings of the study were presented in a paper prepared by the research team of Howard J. EnDean, Robert M. Howard and James E. Knizner.

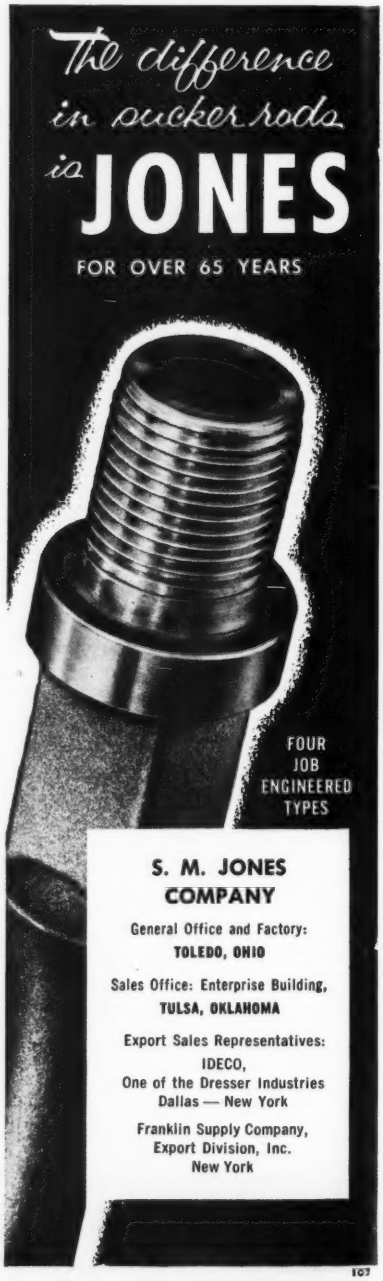
At present, once a pipe line system has been placed in service, operating characteristics of the line between terminals cannot easily be determined. Researchers hope to develop instruments that will explore grade, curvature, roughness, temperature, leakage, and possibly electrical potential. Development of the pressure recording equipment is the first step in this research.

C. E. Spahr, president of Standard Oil Co. (Ohio) and API vice president for transportation, welcomed conferees to the opening sessions. Introductory remarks also were voiced by J. W. deGroot of Tuscarora Pipe Line Co., Ltd., chairman of the conference steering committee, and R. K. Paine, Standard Oil Co. of California, chairman of the central committee on pipe line transportation. Presiding was A. R. Heidebrecht of Platte Pipe Line Co.

William W. Holt, Jr. of the Plantation Pipe Line Co., Atlanta, Ga., discussed design characteristics to be considered in minimizing the mixing of petroleum products as they are pumped adjacent to each other in a pipe line. He noted that such mixing or "contamination" can be expensive to pipe line operation and therefore, any small reduction in such volume results in a direct saving.

A history of research and development in pipe lining since the birth of their industry 94 years ago was presented by M. J. Dabney of the Esso Research and Engineering Co., Elizabeth, N. J. He cited the introduction of welding to join lengths of pipe as "possibly the most outstanding development in pipe lining even to this day."

Technological advances in the pipe line industry resulted in an 8.8 percent decrease in the unit costs of pipe line operation during the period 1953-1957, he said. Such advances have also helped offset "the inflationary conditions caused by general wage increases and other rising costs," he noted.



'Cat-Cracker' Control Problem Aided by 'Model'

A new concept in automatic control technology devised from a mathematical "model" was credited with helping to make possible a major advance in the catalytic cracking process for a leading U. S. oil company.

The system, although developed seven years ago, was disclosed for the first time in a paper delivered by R. E. Hall, computer engineer for Esso Research and Engineering Company, and G. K. Tucker, application engineer of Minneapolis-Honeywell's Brown Instruments division, before the midyear meeting of the American Petroleum Institute in New York recently.

They said the mathematical model, "built" on paper with differential equations, solved a difficult problem in reactor temperature control, a critical step in converting petroleum into motor gasoline and other fuels, by bypassing operational tests.

"The proposed scheme was so unlike anything in existence that its performance could not be predicted from past experience alone," they said. "There was clear need for systematic evaluation of the complete control loop."

Halland Tucker pointed out that to have tested the control system in actual operation not only would have been expensive, but might have proved dangerous.

Esso's improved process, which called for lower investment, maintenance and operating costs, involved features requiring a new means of maintaining a constant temperature in the reactor of the "cat-cracker" which prepares the fuels for separation in a fractionator.

Kaiser Steel Completes Large Pipemaking Plant

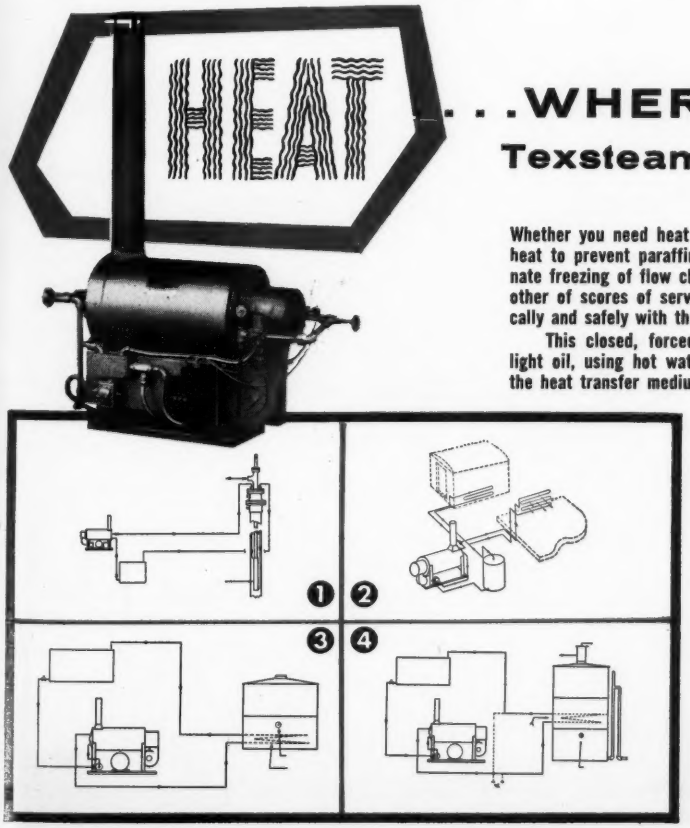
The official completion of a $2,000,000 expansion of facilities at Kaiser Steel's Fabricating Division plant at Napa, Calif., was announced recently by Ernest L. Ilsley, vice president and general manager of the Napa and Fontana operations of the Kaiser Steel Fabricating Division.

The 18-month expansion doubles the Napa plant's pipemaking capacity and makes it one of the largest plants in the world for manufacture of line pipe for oil and gas transmission.

"The expansion was geared to keep pace with the long-range demand for large diameter line pipe for oil and gas pipelines to be constructed in the midwestern and western United States and Canada, and to provide maximum manufacturing flexibility," Ilsley said.

The new facilities make it possible for the Napa plant to produce expanded electric weld line pipe from 20 inches up to 36 inches in diameter, and the size range of the pipe manufactured at the plant can be increased up to 42 inches O.D. if demand warrants. The Napa plant also manufactures electric resistance weld pipe from 6⅝ inches to 20 inches in diameter.

Steel plate for the pipe is rolled at Kaiser Steel's Fontana, Calif., plant where a $214,000,000 expansion was recently completed. One of the key facilities in the Fontana expansion was the construction of a new plate mill which resulted in increased plate capacity. This new mill can roll plate up to 132 inches wide for use in the manufacture of large diameter line pipe.



. . .WHERE YOU NEED IT

Texsteam BTU Thermal Unit

Whether you need heat in the bottom of a well or the bottom of a stock tank . . . heat to prevent paraffin or asphalt deposits in tubing and flow lines . . . to eliminate freezing of flow chokes on gas wells . . . for heater-treater installations or any other of scores of services in the oil fields, you'll get it more efficiently, economically and safely with the Texsteam BTU Thermal Unit.

This closed, forced circulation heater may be fired with natural gas, LPG or light oil, using hot water, steam, oil or a combination of water and soluble oil as the heat transfer medium. It can be furnished with electric motor or gasoline engine drive; with electric or mechanical controls. It is completely unitized and skid mounted . . . wired and test fired before shipping.

Be sure to get complete information on the Texsteam BTU Thermal Unit before specifying any type of heat transfer installation. Ask your Texsteam representative or write for bulletin.

1. BOTTOMHOLE HEATING 2. RIG AND BUILDING HEATING 3. STOCK TANK HEATING 4. HEATER-TREATER SYSTEMS

TEXSTEAM Corporation

A SUBSIDIARY OF VAPOR HEATING CORPORATION

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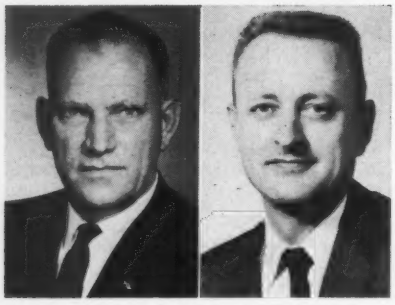
Personalities IN THE NEWS



Rex Walling Les Hanson

Promotions Announced by Grant

Grant Oil Tool Co. has promoted **Rex Walling** to field supervisor in charge of branch operations. Walling joined Grant in 1951 after 17 years in geophysical work. He was district manager and division manager at Odessa before his new assignment.

Succeeding Walling as district manager at Odessa is **Les Hanson,** who has been a Grant representative in Odessa and in Oklahoma City since 1952.

Robert S. Miller, veteran oil field supply salesman in the Rocky Mountain area, is now a Grant representative at Casper, Wyo. **Nolan Byrd,** former branch manager for a large supply firm in Farmington, New Mexico, has been added to Grant's Odessa sales staff.

G.P. Appoints Boege Assistant To Director of Manufactuirng

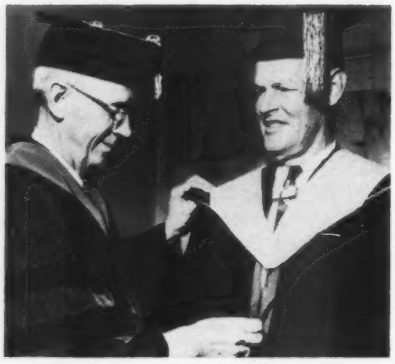
John A. Boege has been appointed by General Petroleum Corporation to the position of assistant to the director of manufacturing, it was announced recently by **R. E. Lauterbach,** vice president and director of manufacturing.

Boege, who joined General Petroleum in 1930 as an inspector at the company's Torrance refinery, had been manager of the manufacturing department's Vernon headquarters since 1953.

He is a member of the American Chemical Society and the American Petroleum Institute.

Continental Oil New Appointments

George F. Berry has been named regional geophysicist of Continental Oil Co., Los Angeles, and **R. K. Hardesty,** divisional land superintendent.



HONORED—Howard C. Pyle, right, president of Monterey Oil Company and 1959 president of the American Institute of Mining, Metallurgical and Petroleum Engineers, received an honorary doctor of engineering degree May 22 from Dr. John W. Vanderwilt, president of the Colorado School of Mines in Golden, Colo. Pyle delivered the principal address during the college's 85th annual commencement exercises.

Harold L. Briggs Retires; Announces Successor

Harold L. Briggs of Los Angeles, executive vice president of Coline Gasoline Corporation and vice president of Chanslor-Western Oil and Development Company, wholly owned affiliated companies of the Santa Fe Railway, retired effective May 31.

John L. Stephens, assistant to the executive vice president, succeeded Briggs.

Stephens joined the Chanslor-Western Oil and Development Company's Midway District in 1927, became engineer in 1940 and assistant chief engineer at Los Angeles in 1947. He has been assistant to the executive vice president since 1952 and resides in Torrance.

Carl Maki to Dresser Post

A new post at Dresser Industries, Inc., assistant to the executive vice president, has been filled by **Carl J. Maki.** The appointment was announced by **J. B. O'Connor,** Dresser President.

Maki comes to Dresser from Texaco, Inc., where he was assistant to the manager of the Gas Division. Previously, he was with the Seaboard Oil Company as gas department manager until that company was merged with The Texas Company in 1958.

In his new post, Maki will work on engineering developments in gas applications. He will report to John Lawrence, Dresser executive vice president, who is in charge of the activities of the Dresser capital goods companies.

Carl J. Maki Hammond A. Helms

Helms Elected V. P. of Baash-Ross

Hammond A. Helms of Dallas, Texas, has been elected vice president and general manager of the Baash-Ross Division of Joy Manufacturing Company. He succeeds **G. D. Johnson,** who continues as a consultant to the Company.

Helms, who has spent 17 years in the oil field equipment manufacturing industry, comes to Joy from Chance Vought Aircraft, Inc., of Dallas, where he was Controller and a member of the Executive Committee.

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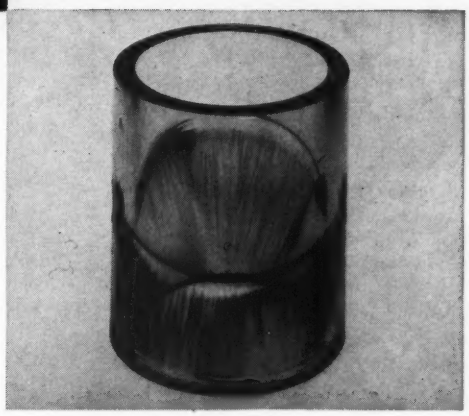
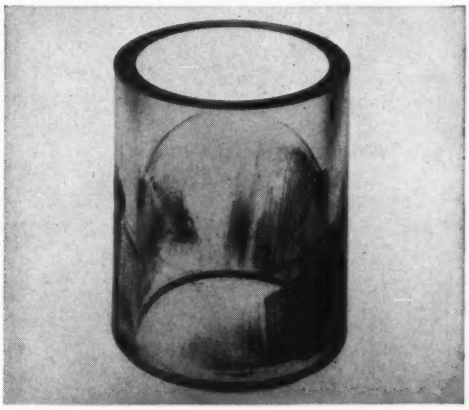
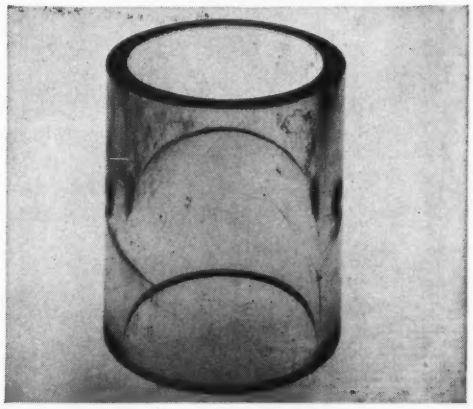
The three photos on the right were taken of glass throttle bodies at the conclusion of a carburetor cleanliness test in which the additives, at low anti-icing dosages, were compared on an equal cost basis.



No additive



Best competitive detergent additive



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James F. Bell John L. Cencak

Bell Appointed Manager of New Department at G.P.

A petroleum chemicals department has been established by General Petroleum Corporation, it was announced recently by **R. L. Minckler,** president. "General Petroleum is presently engaged in several activities in this growing market and we probably will want to expand these operations and investigate the possibilities of new projects," Minckler said.

James F. Bell has been appointed manager of the new department. Prior to joining General Petroleum, Bell was executive vice president of Northwest Natural Gas Company, Portland, a position he had held since 1955. He joined the gas company in 1946 as assistant to the president.

Keenan Appoints Purchasing Manager

To streamline and coordinate the many facets of its purchasing department, Keenan Pipe & Supply Company, has appointed **John L. Cencak** as manager of purchases. The department consists of seven buyers, two expediters, and trained clerical personnel, and is centralized for all branches in the Los Angeles headquarters.

Cencak has been purchasing agent of Keenan since 1954 and has served in other capacities since 1950. Previously he was a buyer with the manufacturing division of Westinghouse Electric.

New Assignments at Humble Oil

Richard E. Faggioli was named acting manager of Humble Oil & Refining Company's California area operations effective June 1, succeeding **John S. Bell,** who has been made production manager of the company's Gulf Coast division, Houston. **J. R. Jackson, Jr.,** was appointed acting area geologist, replacing Faggioli.

New Assignments for Standard Oil Executives

Appointment of three Standard Oil Company of California executives to new assignments in the management of the company's international operations was announced recently by **R. G. Follis,** chairman of the board.

John H. Thacher, Jr., was named assistant to the chairman of the board succeeding **H. D. Armstrong** who was recently elected treasurer of the company. Thacher joined the company in 1930. He has been President of Iran California Oil Company, Standard's subsidiary in London.

Succeeding Thacher will be **Fredric C. Boucke,** previously manager of the company's Eastern Hemisphere staff in San Francisco and manager of operations for Irancal and another subsidiary, California Asiatic Oil Company. He joined Standard in 1937.

George T. Ballou will take over Boucke's previous duties. He has been a vice president of California Commercial Company, a Standard subsidiary with headquarters in New York City.

G.P. Vice President Awarded Honorary Degree

R. O. Swayze, vice president and director of production, General Petroleum Corporation, has been awarded an honorary professional Engineer of Mines degree from his alma mater, the Missouri School of Mines and Metallurgy, Rolla, Mo., **Dr. Curtis L. Wilson,** dean of the school, announced.

The degree was conferred May 31 at Rolla during commencement exercises by **Dr. Elmer Ellis,** president of the University of Missouri. The Missouri School of Mines is a division of the University of Missouri.

Swayze graduated from the Missouri School of Mines in 1920 with a bachelor of science degree in metallurgical engineering. He joined General Petroleum in 1921 at the company's production office in Taft. He became vice president and director of production in 1953.

He is a member of Tau Beta Pi, Theta Tau, Phi Kappa Phi, American Association of Petroleum Geologists, American Institute of Mining and Metallurgical Engineers and the American Petroleum Institute.

E. W. Van Ness Mark Worthington

Parsons Elects Vice-Presidents

E. W. Van Ness and **Mark Worthington** have been elected vice-presidents of The Ralph M. Parsons Company, engineers and constructors of Los Angeles, according to **Ralph M. Parsons,** company president. Van Ness is manager of the petroleum and chemical engineering division. Worthington, manager of cost engineering division, has full responsibility for all cost estimates, cost control, and other cost work.

Worthington started with Parsons in 1945 as chief estimator, while Van Ness came with the company in 1946 as a project engineer. Former connections include Tidewater Oil Company for Van Ness, and Consolidated Steel Corporation for Worthington.

Parsons provides engineering, procurement, construction, and plant operating services to the petroleum and chemical industry.

Jack S. Smith Appointed Regional Sales Manager

Jack S. Smith has been appointed western regional sales manager for Oil Tool, Industrial and Marine Bearing divisions of Byron Jackson Tools, Inc., according to an announcement by **R. J. Evans, Jr.,** vice-president and domestic sales manager.

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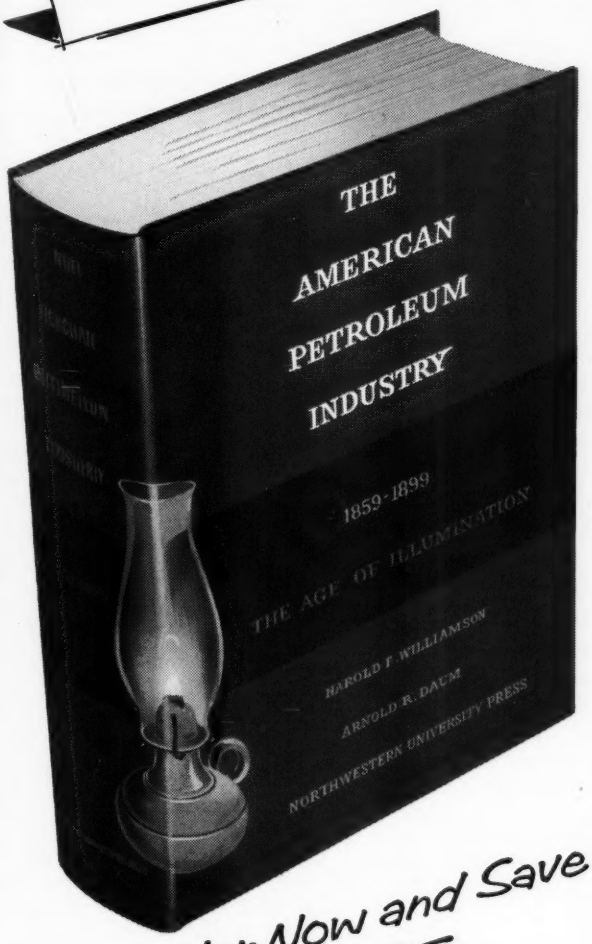

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35 Years Service with G.P.

W. B. Curtis, manager of public services, General Petroleum Corporation, marked 35 years of service with the company last month.

Curtis began his petroleum career in 1924 as a chemist. He also has had extensive experience in petroleum marketing as salesman, sales manager, and in administrative positions in various areas where General Petroleum markets. Prior to becoming head of public relations, Curtis was manager of advertising and sales promotion for many years.

He is a member of the American Petroleum Institute; Society of Public Relations Counselors, Los Angeles; Petroleum Club of Los Angeles; Jonathan Club; Greater Los Angeles Press Club and the San Francisco Press and Union League Club. He is past chairman of the Western Oil and Gas Association's public relations subcommittee.

Curtis will receive the commendation of the board of directors of General Petroleum and a diamond lapel emblem.

Aramco Elects Officers

Thomas C. Barger has been elected president of the Arabian American Oil Company, it was announced recently. **Norman Hardy,** president since January, 1958, has been elected chairman of the board of directors to succeed **Fred A. Davies,** who has retired. Mr. Hardy will continue as chief executive officer.

Aramco also announced the election to its board of **John Noble,** president of the Tran-Arabian Pipe Line Company.

Mr. Barger joined Aramco as a geologist in 1937, before the company made its first discovery of oil in commercial quantities in Saudi Arabia in 1938. He transferred to government relations work in 1941 and later became Aramco's director of local government relations and representative to the Saudi Arab Government. Since 1958 he has been a vice president, assistant to the president and a director. Along with Mr. Hardy, he will continue to make his headquarters in Dhahran, Saudi Arabia.

Mr. Hardy, who joined Standard Oil Company of California in 1926 as a geologist, is a veteran of service in Indonesia, the Netherlands and South America as well as the United States. He was president of the Richmond Exploration Company before joining Aramco in 1951.

Mr. Noble served as an associate general counsel of Aramco prior to assuming the presidency of Tapline in 1956. His headquarters will continue to be in Beirut, Lebanon.

McCullough Appoints District Manager

W. A. McCullough, Mountain Division sales and service manager of the McCullough Tool Company announces the appointment of **Olin McGrew** as district sales and service manager at Farmington, New Mexico. Formerly district sales representative at Farmington, McGrew has had extensive field training and is familiar with all wire line operations.

Sunray Elects Officers; Approves Stock Option Plan

Paul E. Taliaferro was elected president and chief executive officer of Sunray Mid-Continent Oil Co. by the company's board of directors at its quarterly meeting in Tulsa last month.

Taliaferro (pronounced Toliver) succeeds **W. C. Whaley** who has been president of the company for the past seven years and who on May 1 became eligible for retirement. Whaley will remain with Sunray, however, and was re-elected an officer as chairman of the executive committee.

C. H. Wright was re-elected chairman, and R. W. McDowell, president of DX Sunray Oil Co., wholly owned subsidiary, was re-elected vice-chairman.

All other officers were re-elected.

In announcing Taliaferro's election as president of the company, chairman Wright said that the move was being made at this time to recognize Taliaferro as a younger man with long executive experience in the company in keeping with Sunray's long range plans to continually build and strengthen its management leadership.

Taliaferro was employed by Sunray in 1931 as general attorney and has served as a director of the company from 1946 to the present time. He has served as executive vice-president since 1952.

At the annual meeting of Sunray Mid-Continent stockholders held prior to the directors' meeting, all directors including Wright, McDowell, Whaley, Taliaferro, R. E. Foss, Jacob France, D. L. Frawley, H. O. Harder, R. Paul Henry, Edward Howell, R. B. Parriott, E. M. Rouzer, A. A. Seeligson, Glenn J. Smith, and Jay P. Walker, were re-elected.

Sunray stockholders also approved a new 1959 stock option plan for key executive personnel.

New Refining Process Developed Chemical Engineers Are Told

The "Alkar" process, which uses a unique solid catalyst to make a wide range of hydrocarbon products in very high yields, was described, at the 40th National Meeting of the American Institute of Chemical Engineers. The process was the subject of a paper delivered by H. W. Grote and C. F. Gerald of Universal Oil Products Co., Des Plaines, Ill.

"Not only is the Alkar process broadly flexible with respect to the products it can manufacture, but it also has the remarkable ability to utilize olefins at almost any concentration level," they said. "Ethylene, for example, can be fed either as a high purity gas stream or at any intermediate concentration down to a few percent. This allows the Alkar process to utilize as its olefin source waste gases that in the past have had fuel value only. In certain cases, low concentration aromatic streams may be charged, also such as fractions from catalytic reforming."

The process has a number of unique features and uses an entirely new fixed bed catalyst system developed in the laboratories of Universal Oil Products, they said. It produces petrochemical products of "super-purity" and obtains yields of alkyl aromatics "which may be essentially quantitative, both with respect to the olefins and to the aromatics." Because the process employs moderate operating conditions and involves no corrosion problems, capital investments are moderate. It will give profitable operations, even for relatively small units. "Utilizing this process, benzene can be alkylated with olefins ranging from ethylene, propylene and butylenes, up through higher molecular weight olefins. Toluene, xylenes and other aromatics can be similiarly alkylated."

API Oil-Burner Study Under Way by Battelle

The recently initiated American Petroleum Institute study aimed at improved oil-burning equipment "has sparked a spirit of enthusiasm and coperation within the oil industry," C. M. Blickensderfer, Sinclair Refining Company, said in presenting an initial report on the study at the mid-year meeting of the API's Division of Marketing in Des Moines, Iowa, May 29. Blickensderfer is chairman of API's fuel oil committee.

The study to which Blickensderfer referred and which J. L. Minner of the Shell Oil Company later described in some detail is now under way at Battelle Memorial Institute, Columbus, Ohio. According to Minner, the objective of the project is to formulate an industry-wide research program to improve oil-burner equipment and develop new uses for fuel oil. He characterized the present study as an initial step in a long-range program, a study which will serve to coordinate pertinent research now being done independently by many organizations within the industry and elsewhere. Minner, who is chairman of the research subcommittee of the API's fuel oil committee, said that the study reflects the industry's growing interest in the position of oil burner equipment in the highly competitive market for home-heating units.

D. W. Locklin of Battelle's mechanical engineering department is serving as full-time cordinator of the study and is acting as research consultant to the fuel oil committee. During the study, Battelle is maintaining close liaison with the API research subcommittee, as well as the subcommittee's newly organized technical advisory group. This group, composed of oil company technical men, is headed by C. J. Livingstone of the Gulf Oil Corporation.

Battelle engineers are presently engaged in a survey of recent and current research activities based upon visits to laboratories of oil companies, burner manufacturers, component manufacturers, and research organizations. In addition, the Battelle study will include an evaluation of new and unconventional concepts in fuel-oil combustion.

Research of Hydrocarbon Composition Expensive

Thirty-three years and more than a million dollars have been spent on a research study of the hydrocarbon composition of a single barrel of crude oil, it was reported at the Fifth World Petroleum Congress in New York this month.

Thus far, according to Frederick D. Rossini and Beveridge J. Mair, of Carnegie Institute of Technology, Pittsburgh, Pa., who have been operating the project for the American Petroleum Institute, all this work, money, and time have produced only 169 fully identified hydrocarbons of the more than a million estimated to exist. The scientists said researchers have used every device of modern science, but frequently have had to devise their own distillation equipment and procedure to carry on the work, which continues.

L. C. Stevens, S. F. Bird, and J. J. Justin, Mobil Oil of Canada, Calgary, Alta., Canada, revealed that modern oil producing methods saved the Pembina Field, one of the largest in North America, from being classed as almost "dry" by producers. This was done, they said, by fracturing a "tight" rock section under hydraulic pressure and propping the fractures open with sand.

INTERPRETATION

Chinese writing or chicken tracks? It takes a chicken or a Chinaman to decide. That's the way it is with many oil well logs—difficult to decide if you have a well unless you're an expert. **But you don't have to be an expert to read a Welex log.** Welex's new interpretation techniques are designed to help you, the oil man, make your own decision with confidence. This is another reason why Welex, originator of jet perforating, now leads in revealing down-hole secrets of your well.

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AUTO ANTI-SMOG DEVICE—Reducing by more than 80 percent the smog-causing contaminants in automobile exhaust fumes, this catalytic purifier—successfully road-tested by General Motors and the subject of a technical paper delivered by GM at the Society of Automotive Engineers' meeting in Detroit in January—will be publicly shown for the first time at the Air Pollution Control Association conclave in Los Angeles, June 22, 23, 24. Holding the unit, above, for comparison with a standard automobile muffler is Eugene J. Houdry, famed catalytic scientist and founder of Oxy-Catalyst, Inc., of Wayne, Pa. Also to be displayed at the Oxy-Catalyst booth at the show will be (1) an experimental exhaust purifier for diesel buses and trucks and (2) a cutaway, full-size model showing a complete, packaged catalytic system for eliminating dangers or foul-smelling fumes from industrial plant processes.

Union Oil Announces New Refinery Building Program

A new $17,000,000 refining program to improve gasoline and mid-barrel products has been approved by the executive management of Union Oil Company of California for its Los Angeles refinery. Construction will begin shortly and the new facilities are expected to be in operation within fifteen months.

Among the facilities to be built are: (1) a 14,000 barrel per day catalytic reformer to produce a high octane gasoline blending component; (2) a 17,400 barrel per day Unifiner to pretreat the feedstock to the new catalytic reformer, thus reducing the sulfur and nitrogen content of the feedstock to the new reformer; (3) a 4,000 barrel per day Unifiner to upgrade heavy catalytic cracked gasoline stock by reducing its sulfur, olefin, and nitrogen content and by improving its octane rating; (4) a 10,000 barrel per day diesel Unifiner to remove nitrogen and sulfur compounds and improve color stability and cetane of a portion of our mid-barrel production.

The company also plans to construct a carbon monoxide boiler at a cost of approximately $1,500,000 to reduce the quantity of carbon monoxide emitted to the atmosphere. Although this boiler is not required by any rule of the Air Pollution Control District, the company is continuing its policy to reduce air contaminants on a voluntary basis.

Upon completion of this refining program, including the carbon monoxide boiler, the company will have spent more than $10,000,000 to prevent air pollution at its Los Angeles Refinery.

New Smog Control Equipment Described at World Congress

Some of the world's leading oil scientists and engineers heard a description of new and highly effective smog control equipment which has been developed for a Los Angeles refinery.

Gerald Fisher, pollution control coordinator, General Petroleum Corporation, presented the details in a technical paper before one of the opening sessions of the Fifth World Petroleum Congress in New York, June 1.

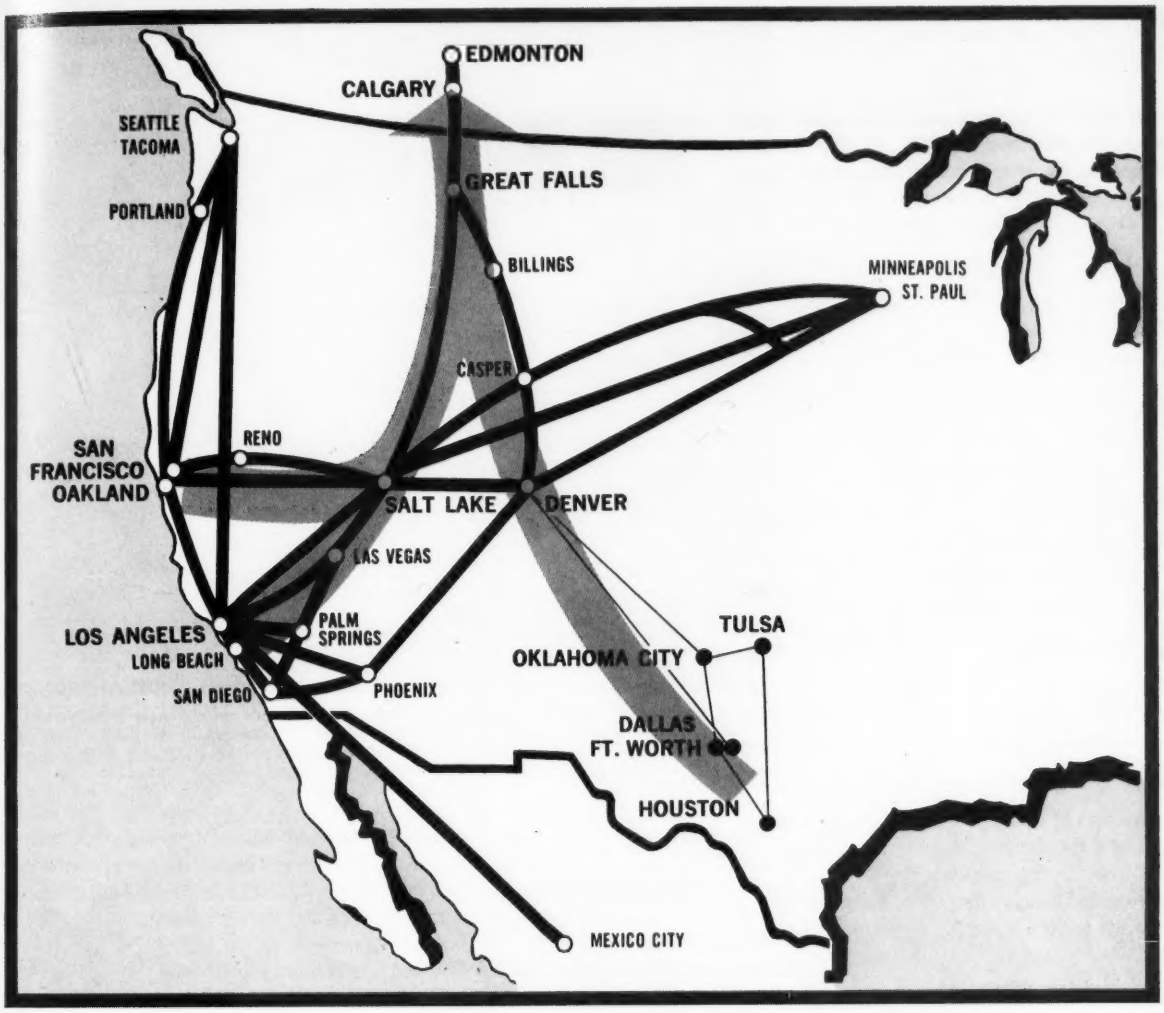
At the Torrance Mobilgas refinery, he said, pollution control has been developed to such a point that even hydrogen vapors from oily waste water are now collected and disposed of.

He described another new facility which completely eliminates the chance for steam or gases to be blown from the coker unit in the refinery. A coker unit is a device to transform the low-grade oil left over from the direct refinery process into gasoline, fuel oil and high grade coke.

The General Petroleum paper was written by L. A. Castler, chief design engineer, and F. A. Manley, refinery process engineer, and Fisher. It is one of 23 papers being presented before the engineering, equipment and materials technical session of the congress.

The first smog controls at refineries in Los Angeles were designed for smoke, fumes and dust, Castler said. Now, steam and vapors are being scrutinized.

Since World War II, petroleum refineries in the Los Angeles area have spent more than $30 million to reduce air pollution, Castler said. Now approximately 70 percent of the smog in the Los Angeles area comes from automobiles.



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New Fracture Method Simplifies Operation

A new planning method for fracturing jobs is being made available to oil men by Halliburton Oil Well Cementing Co. In the opinion of service company technical personnel and oil operators who helped work out the system, the method offers a simplified approach to a complex problem.

Designing fracture treatments to obtain the best results at the least expense involves many factors. Such data as the best fracturing fluid to use for the specific formation involved, horsepower requirements friction loss, treating pressures, injection rates, sand quantities and fracture areas—all these must be considered and evaluated in order of importance.

Data Correlated

The method begins with correlating all known reservoir data, past fracturing experience in the area and desired production figure. This information is then used with a new technical publication, "A Method for Fracturing Treatment Design," which employs curves, charts and formulas that enable the oil man to pick the fracturing treatment best for the particular well.

The specific information required includes effective permeability, core analysis, porosity, bottom hole temperature and pressure, bottom hole viscosity of fluid, gas/oil ratio and water production. In most cases this information is available or can be obtained from reliable sources such as drill stem tests, electric logs, laboratory tests and the like.

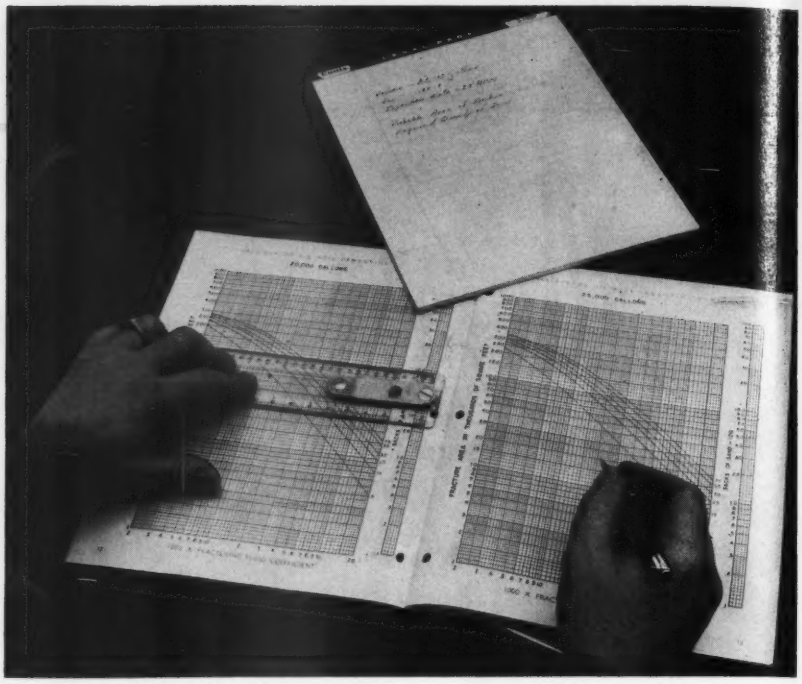
This method also relies heavily on past experience in addition to a theoretical approach. All the information is "fed into" and worked through the publication to obtain possible treatment. Sometimes several alternate treatments can be found.

Fluid Need Indicated

Treatments which have been calculated by this method often indicate the need for a more efficient fluid and a greater volume of propping agent to completely pack the fracture area. Properly packing the fracture tends to prevent healing, gives better fracture flow capacity and may minimize returning sand. When this is accomplished better sustained production should result.

Since fluid properties with and without additives must be known in any given area, Halliburton has been engaged in an intensive evaluation program of many domestic oils. This work, which is being carried on at many Halliburton's field laboratories, is available for inspection to interested oil men.

This planning system and "A Method for Fracturing Treatment Design" are not "cure-alls" but are important steps toward obtaining optimum fracture treatment of a particular well—or an entire field.



OIL MEN CAN NOW PLAN their own fracturing treatments with a new Halliburton publication, "A Method for Fracturing Treatment Design." Information is "fed into" the manual—which uses curves, graphs, charts and formulas to assist in the calculations—to help the operator choose the fracture treatment best for a specific well.

Campaign to Increase Public Use of Oil Heating

The oil industry is coming out swinging in its battle to check the inroads of natural gas into the heating fuel market. This was the message brought forth at the closing sessions of the midyear meeting of the American Petroleum Institute's Division of Marketing in Des Moines, Iowa, May 29.

A new call is going out for greater participation in the campaign to aggressively promote oil heating to the public, L. S. Marshman, Mobil Oil Company, New York, told the meeting. Marshman, who heads up the promotional subcommittee of the API fuel oil committee, reported that the latter committee has recommended that an entirely new group be formed to handle the promotion. Handling the promotion in 1959 is the National Fueloil Council, Inc., and this organization will continue its activities until a new organization has been formed.

Marshman pointed out that only nine refiners are currently contributing to the fund which matches a similar amount raised by local marketer groups. The total fund is $1,500,000.

In contrast, he said, the American Gas Association expended $5 million in 1958 in the field of promotion and advertising and quoted the statement of the AGA that its campaign "has contributed more than any other major factor to the swift and steady growth of the gas industry."

The API fuel oil committee passed a resolution approving the formation of a new organization to combine into one all the organizations currently conducting promotion of fuel oil or oil burning equipment, such as the Oil Heat Institute. It was suggested that the new organization might take the name of the Oil Heat Institute and that it be established in business as soon as possible.

Texaco to Build New Facilities in Alaska

Texaco Inc. is constructing a new water-front sales terminal at Seward as the first step in the expansion of its petroluem marketing in Alaska, the international oil company announced recently.

Erection of the Seward terminal started in April and will be completed in July, on property at the foot of "C" Street which Texaco has leased from the Alaska Railroad, according to Stanley M. Rottrup, Texaco's Alaska Zone Manager.

"For many years, Texaco has been the only oil company marketing in all 48 states," Mr. Rottrup said. "With the entry of Alaska into the Union, Texaco became the first and only company to market petroleum products in all 49 states."

Texaco's initial plans call for the construction of storage and loading facilities at Seward, plus similar bulk plants at Anchorage and Fairbanks.

All products—aviation and automotive gasolines, diesel and burner oils and kerosene — serving the Alaskan market will be shipped by 45,000-barrel barges from Texaco's newly-completed Puget Sound refinery at Anacortes, Washington. They will be received at the Seward terminal and then transhipped by rail to the Company's bulk plants at Anchorage and Fairbanks.

Drilling crew on General American Oil Company's Well Snyder No. 1, Wilmington Field. Left to right: Mutt Dennis, pusher; Roy Holly, driller; Frank Marshall, cathead; Tom Currey, leadtong; Al Kliewer, derrickman; and A. F. Barton, racker. (Ben Owens Drilling Co. contractor).

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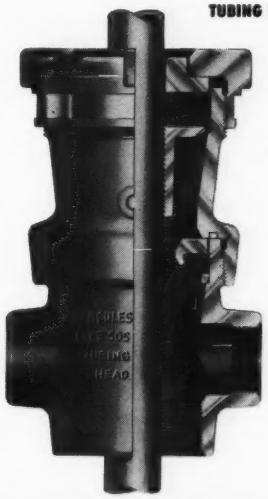

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West Coast Fish Population Favors Offshore Oil Platforms

Good news travels fast under Pacific waters. For the past few months the big topic, whenever briny citizens get together for a little nose rubbing, has been the news "that life around the oil platforms and islands can't be beat." As a result, bass, bonito, barracuda, sardines, and even the underwater Texans, rubberlip perch, are among those wiggling their way from up and down the California coast, to find a new home in the "offshore oil patch."

Delighted sports fishermen find it hard to believe, as do envious fathers, as they eye Junior's handsome catch, taken from waters long considered by the old man to be barren of marine life. It's not that Dad's memory is slipping, for prior to the completion of Standard-Humble's offshore shore platform at Summerland, California, and Richfield Oil Corporation's palm-fringed island at nearby Rincon, the waters of this area were classed as a "marine desert." Department of Fish and Game divers, slithering through the deep ooze on the ocean floor here, as recently as June 1958, were lonesome men, except for the disenchanting company of a few coral-like marine organisms, known in the trade as "sea-pens," and a large number of "snake-like" serpulid worms.

For husky, able, marine biologist John Carlisle of California's crack Department of Fish and Game, everything came into focus one memorable Spring afternoon while hunched over the ever-present laboratory microscope.

A talented SCUBA (self contained underwater breathing apparatus) diver, Carlisle had often noticed, while probing beneath the Pacific, that unusually large numbers of fish were attracted to the ghostly hulls of sunken vessels, auto bodies, and clusters of large breakwater rock which dotted the bottom at infrequent intervals. Carlisle reasoned that fish, like the rest of us, enjoy getting away from the old grind whenever possible, to relax amidst the waving kelp which usually attaches itself to submerged objects.

An idea was born. The Fish and Game Department, under Carlisle's direction, would create artificial fish shelter and habitat by placing old streetcars, auto bodies, vessels and other appropriate objects on the ocean floor, at strategic locations along the coast. Particular emphasis was to be given to areas known to possess little or no underwater population, in the hopes that smaller fish would be attracted by the artificial shelter and realize that here they would have the safety and time necessary to make "big ones out of little ones."

Fish and Game had a project. The project, with an impressive title—"Ocean Fish Habitat Development Project"—looked good in theory and organization. All they needed, in addition to time, was a partner to share expenses. They looked toward the oil industry and the Federal Government with whom they had worked in the past.

Historically the oil industry has always had plenty of their own expenses and never enough time. But the industry was curious, as were many other citizens, as to what effect, soon to be accelerated offshore drilling operations would have on coastal marine life.

The West Coast oil industry left tax paying and drilling operations long enough to give its blessing to the uniting, in the bonds of mutual interest, of Fish and Game and Western Oil and Gas Association's Offshore Operations Committee. The union was designed to further the development of scientific knowledge as to the effects of offshore oil operations on marine life and help determine the practicality of providing artificial marine habitat.

The industry's dowry included Standard and Richfield's multimillion dollar drilling platform and island, respectively. Both the platform and the island, as well as General Petroleum's Rincon pier and the Monterey Oil-Texaco drilling island at Seal Beach, were potentially excellent havens for marine life of all types. The monthly reports of SCUBA-diving marine biologists tell the story.

"Sighted mixed school of 1,000 Pacific sardines, 2,000 jack mackerel, 800 shiner perch, 50 pipefish, bonito, barracuda, bass . . .," so reads an official monthly report issued only a few weeks after the final positioning of Standard's Summerland platform.

At Richfield's island, crab, shrimp and lobster battle for rent-free apartment space among the cozy 31-ton concrete tetrapods which protect the island's face from the surging surf. While swirling and eddying in the surrounding waters over two dozen varieties of fish gorge themselves on a "finny" gourmet fare provided by the multitude of marine organisms residing in the ever-present kelp.

Yes, the word is out under the Pacific. Oil and water usually do not go together, but oil platforms, islands, and abundant marine life certainly do!

Schlumberger Acquires Computer Systems; Expands Production

Schlumberger Limited has acquired an eighty per cent stock interest in Computer Systems, Inc. of New York City.

Under the stock acquisition plan announced jointly by Pierre Schlumberger, president of Schlumberger Limited, and Robert K. Stern, president of Computer Systems, Inc., an amount of over $3,000,000 will be invested in expanded production facilities, additional personnel, and furthering Computer Systems' research and development program. Gross sales of the company are currently at a rate of $1,000,000 per year.

Mr. Stern stated that the change in ownership of Computer Systems, Inc. will not affect the present management or personnel. The company, founded in 1950 as Mid-Century Instrumatic Corporation, manufactures analog computers and allied equipment.

Baker Filtration Enters Oil Scene

The formation of an Oil Field Division of Baker Filtration Co. has just been announced by Bill Baker, president of the parent company, whose offices and plant are located at 3301 Gilman Rd., El Monte, Calif. Heading the new division as general manager will be Jay Gould, formerly of Cosasco Division, Perfect Circle Corporation.

The Baker Oil Field Division will be concerned with the production of large-scale diatomaceous earth filtration systems for water flooding and waste water disposal.

The executive operating committee of the division will consist of Gordon Smith, as director of finance and administration, and Joe Scott, as director of production, in addition to Baker and Gould. J. C. Velvin, Jr., of Velvin Industrial Products Co., Midland, Texas, has been appointed as Baker representative in the West Texas-New Mexico area.

Chemical Used as a Water Softener Seen Valuable Tool in Well Flooding

A chemical sometimes used as a water softener may play a big role in the secondary recovery of petroleum from old oil wells, the American Institute of Chemical Engineers was told recently.

The chemical is sodium tripolyphosphate, which also is used to treat drilling mud said Robert T. Johansen and H. N. Dunning, of the Surface Chemistry Laboratory, Petroleum Experiment Station, Bureau of Mines, United States Department of the Interior, Bartlesville, Okla. Their report was made in a paper, Relative Wetting Tendencies of Crude Oils by the capillarimetric method. In a series of experiments they found that the quality of crude oil and flood water rather than the condition of the oil bearing rock affects the recovery of oil by flooding.

Previously emphasis had been placed on the characteristics of the reserve materials with little consideration given to the fluids themselves, but recently the wetting tendencies of the crude oils themselves have been investigated, they said.

Imbibition and the more general phenomenon of capillary pressure afford the most direct approach to the measurement of wettability, they added.

"The results of capillarimetric studies show that the wetting tendencies of crude oils differ widely and may be the major factor in determining the wettability of reservoir surfaces," they said.

"The change in wetting tendency of crude oil after addition of sodium tripolyphosphate to the water indicated that it should be an effective and useful additive for waters used in secondary recovery of petroleum," they said. "This chemical appears to have most of the desirable features of water treating chemical feeders now in use, and is compatible with brines. Also it is now being used as a sequestering agent in flood waters. Only a few parts of this phosphate were necessary to prevent preferential oil wetting of the capillary by even the strongest wetting oils."

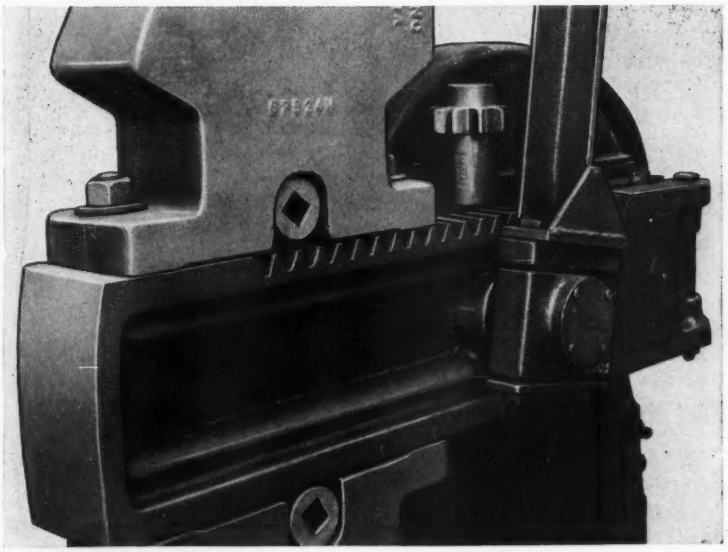
Sodium tripolyphosphate "was highly efficient in promoting formation of a water-wet system, even with oils having strong tendencies to form oil-wet systems," they said.

Some oil bearing rock has an affinity for oil, others for water. Addition of tripolyphosphate increases the affinity for water and eases the task of displacing the oil, it was explained. Forcing water through oil-wetted capillary requires additional pressure and may result in channeling the water and bypassing part of the oil, they said. "The addition of a substance such as sodium tripolyphosphate to the floodwater to promote wetting of the reservoir surface by the aqueous phase therefore should allow more efficient as well as more rapid oil recovery."

New Brochure on Packer Retriever

A new six-page brochure describing a Packer Retriever, a specialty tool which offers a safe measure for retrieving drillable production packers, has just been made available by the manufacturer.

The folder covers use, advantages, operation (including operational cutaway drawings), complete instructions, and specifications of a number of sizes, as well as optional equipment. Bowen Itco, Inc., P. O. Box 4587, Houston 13, Texas.



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LOS ANGELES BASIN

Solemint Test Abandoned

H. L. Shepard & Sons Operators abandoned Guglielmino No. 1 at a total depth of 3025 feet. The test was located in the southeast quarter of Section 18-4n-15w, two miles north of the Placerita field.

Bouquet Canyon Well Quits

Edward Lustgarten has abandoned Lucky Lusty No. B-2, located in the northeast quarter of Section 14-4n-16w, at a total depth of 2816 feet.

West Newport Well Abandoned

Red Star Oil Company drilled to 3160 feet and abandoned Red Star-B.P.S. Associates No. 1, located in the southeast quarter of Section 12-6s-11w.

Huntington Beach Completion

Standard Oil Company completed Huntington-A No. 138 good for 122 b/d of 18.6 gravity oil, cutting 7 percent through an 18/65" bean with pressures of 235/490 psi and 180 mcf of gas. Located near the intersection of Garfield and Edwards Streets in Section 34-5s-11w, the well was drilled to 2550 feet and plugged back to 2360 feet. 7" casing is cemented at 1750 feet.

Beverly Hills Completion

Universal Consolidated Oil Co. completed Community No. 9-A flowing 900 b/d of 31 gravity oil cutting 4 percent drilling fluid. Flow was through a 24/64" bean and gas production was 530 mcf. Located near the intersection of Fox Hills Drive and Santa Monica Blvd. in Section 26-1s-15w, the well was drilled to a total depth of 11,496 feet and 7" casing was cemented at an undisclosed point. The well is producing from 450 feet of zone above 10,902 feet. This is the third well to be completed on the Fox Hills Community lease, consisting of 109 acres, and the total of wells completed on the Twentieth Century Fox property and adjacent properties is 27. Drilling operations are beginning on a new location, Fox Hills Community No. 10-C, with a surface location ten feet northerly of Community No. 9-A. Sun Drilling Company is the drilling contractor for these wells.

Orange County Core Hole

In the San Clemente area, Humble Oil & Refining Company is preparing to drill O'Neill Estate No. C-1, a Stratigraphic test located in the southeast quarter of Section 15-8s-7w.

Inglewood Test for Standard

Standard Oil Company has staked location for Marlow-Burns No. 305 on the southeast plunge of the Inglewood Field in Section 16-2s-14w.

Beverly Hills Core Hole

Hudson Gas & Oil Corp. has commenced drilling the first of three scheduled core holes on Section 14-1s-15w. Core Hole-L. A. Country Club No. 1, located 3010 feet north and 360 feet west from the intersection of Comstock and Wilshire, spudded in May 31st. Hudson has previously drilled and abandoned three deep tests on this property.

SAN JOAQUIN VALLEY

San Emidio Test for Ohio

The Ohio Oil Company is grading roads for KCL-R No. 21-2 located in the northwest quarter of Section 2-11n-22w. The test is scheduled to be drilled to 12,500 feet and is four miles northwest of San Emidio Nose production. Camay Drilling Co. has the drilling contract.

Semitropic Test Abandoned

Western Empire Petroleum Co. has abandoned Superior-Western No. 2 at a total depth of 3600 feet. The test, located in the northwest quarter of Section 1-27s-22e, logged the Mya Sand at 2500 feet.

Kings County Test Abandoned

In the Hanford area, McCulloch Oil Exploration Co. of Calif., after running logs and sidewall sampling, has abandoned McCulloch-Swanson No. 1 at a total depth of 7240 feet. Location of the test is in the southwest quarter of Section 6-18s-22e, five miles north of the town of Hanford.

Round Mountain Test

In the Sharktooth area, Citizens Oil Company is drilling S. P. No. 2, a Vedder Sand test, located near the west quarter corner of Section 23-28s-28e.

Two Tests for Richfield

Richfield Oil Corp. has staked locations for two tests on the San Emidio Nose. KCL-H No. 81-9 will be drilled in the northeast quarter of Section 9-11n-21w, and KCL-H 85-9 will be drilled in the southeast quarter of Section 9-11n-21w.

Gosford Completion for Universal

Universal Consolidated Oil Co. completed Statex-KCL No. 87-13 flowing 165 b/d of 31.6 gravity oil cutting 7 percent through an 11/64" bean. Located in the southeast quarter of Section 13-30s-26e, the well was drilled to a total depth of 9923 feet and cemented 7" casing at 9652 feet. 56 feet of perforations are open to production within the interval 9520-9594 feet.

Tejon Well Cements Casing

Standard Oil Company is reaming hole to run 7" casing on Universal Consolidated-S. P. No. 338-19 located in the southwest quarter of Section 9-11n-19w. Drilled to a total depth of 13,801 feet, the hole was plugged and redrilled to 7850 feet. On a test of the interval 7858-7900 feet in the original hole, the well flowed at a 500 b/d rate of clean oil on a 1½ hour test.

Monterey County Wildcat

In the Pole Canyon area, Taliaferro and Turner, Operators, spudded Well No. 9-G-1 and is drilling below 550 feet. The test, located in the southeast quarter of Section 9-22s-8e, is being drilled on a 600 acre farmout from M.J.M.&M. Oil Co. and Mohawk Petroleum Corp. and will be drilled to approximately 4000 feet. MJM&M and Mohawk have an additional 6700 acres under lease surrounding the 600-acre farmout.

Guijarral Hills Extension Test

Lloyd A. Harnish Associates is grading rig site for Kast-Spieler No. E8-26F located in the southwest quarter of Section 26-20s-16e. The well, a 10,500 foot Gatchell Sand test, will attempt to extend the Gatchell Sand to the northeast of the proved field area.

Bellevue Test for Atlantic

Atlantic Oil Company has spudded in on Zacheisz No. 72-34 located in the northeast quarter of Section 34-29s-26e. The well is a northwest extension test of the Bellevue field and will be drilled to 9000 feet for a test of the Pulv Sand.

Welcome Valley Test Abandoned

Gene Reid Drilling Inc. has abandoned Occidental-Mabry-Still No. 16-1 at a total depth of 2873 feet. The test was located in the southwest quarter of Section 1-26s-18e approximately 4000 feet west of Welcome Valley production.

Tejon Hills Test Quits

O. M. Slosson abandoned Tejon No. 55 located in the southeast quarter of Section 16-11n-18w at a total depth of 2600 feet.

Two Completions for Richfield

Richfield Oil Corp. completed two wells in the San Emidio Nose area,: both flowing wells. KCL-H No. 65-9, located in the southeast quarter of Section 9-11n-21w, was completed as a dual completion flowing 530 b/d of 29.7 gravity oil cutting 1 percent through a 22/64" bean from the Reef Ridge Sand, and from the H-33 (Stevens) flow was 170 b/d of 31 gravity oil through a 1½" bean. Total depth of the well is 12,713 feet with 7" casing cemented at 11,310 feet and a 5" perforated liner is landed at 12,713 feet. Richfield's KCL No. 56X-36, located in the southeast quarter of Section 26-11n-20w, was completed flowing 150 b/d of 64 gravity oil cutting 0.5 percent from the Lower Olcese sand logged in the interval 7376-7452 feet. Drilled to a total depth of 8254 feet, the hole was plugged back to 8065 feet and 7" casing cemented at 7860 feet.

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Mount Poso Test Abandoned

Ebert Oil Company's Bessted No. 1 located in the northeast quarter of Section 33-26s-28e logged gray Vedder sand at 1514 feet and was abandoned at a total depth of 1588 feet.

Paloma Deep Test

Atlantic Oil Co. is preparing to spud KCL No. 83 located in the northeast quarter of Section 17-32s-27e. The well will be a 14,000 foot Reef Ridge Sand test, one mile southeast of Paloma Field production.

McDonald Anticline Test Abandons

Ferguson and Bosworth have abandoned Layman No. 35 located in the southeast quarter of Section 18-28s-20e after drilling to a total depth of 3830 feet.

Midway Test Abandoned

Tidewater Oil Company abandoned Well No. 62, a field test, at a total depth of 2052 feet. The test was located in the northwest quarter of Section 2-31s-22e.

Vallecitos Extension Test Abandoned

Coast Exploration Company's Coast Expl.-USL No. 74X-29 located in Section 29-16s-11e found the Yokut Sands non-productive and was abandoned at a total depth of 2096 feet.

Mountain View Well Abandons

Ferguson and Bosworth's Union-Signal-Tipton-Stockton No. 57-34 in Section 34-31s-29e was drilled to a total depth of 11,711 feet and after running an electric log was plugged and abandoned. No tests were made.

Bellevue Recompletion

The Superior Oil Co. recompleted Berchtold No. 25-35 located in the southwest quarter of Section 35-29s-26e flowing 125 b/d oil cutting 0.1 percent through a 10/64" bean. First

completed in 1953, more zone was opened up with perforating additional zones from 8283-50 feet and 8288-8304 feet.

Buena Vista Completion

Honolulu Oil Corp., Operator, completed Well No. 524-5D pumping 215 b/d of 31 gravity oil cutting 3 percent. Located in the southwest quarter of Section 5-32s-24e, the well was drilled to a total depth of 4270 feet and was plugged back to 4199 feet. 7" casing is cemented at 3740 feet and a 5½" perforated liner landed at 4199 feet.

Fresno Test Abandoned

Pacific Oil & Gas Development Corp. abandoned Honolulu Oil-Turner No. 71-8, located in the northeast quarter of Section 8-16s-19e, at a total depth of 6850 feet. The test was the company's second abandonment in the area.

Kettleman North Dome Test

Artnell Company, Helm Company and Robert Sumpf will drill S.O.Co. Fee No. 42-13 located in the northwest quarter of Section 13-21s-16e. The test will be a 11,500 foot Eocene test and is approximately ¾ of a mile northwest of the Kettleman Hills field production.

NORTHERN CALIFORNIA

Contra Costa Gas Discovery

Trico Oil and Gas Company has a new gas field discovery with the completion of Faria Unit No. 1 flowing 4300 mcf of gas per day through a ¾" bean. Flow pressure was 520 psi. Located in the northwest quarter of Section 21-2n-1w near Los Medanos, the well was drilled to a total depth of 4522 feet and cemented 7" casing at 2418 feet. Cement was drilled out to 2397 feet and the casing perforated from 1717-1714 feet.

Sacramento County Test

Brazos Oil and Gas Company is surveying location for S. R. Unit One No. 2 to be drilled in Section 20-4n-4e in the River Island area. The test will be drilled to 10,000 feet.

Gas Completion for Amerada

Amerada Petroleum Corp. completed Capital Company No. 4 flowing 2500 mcf of gas per day from the perforated interval 3299-3328 feet. Located in the Thornton Gas Field on Section 27-5n-5e, the well was drilled to a total depth of 3340 feet and cemented 5½" casing at 3340 feet.

Camay Drilling Company is putting down L. B. O. D.'s well No. F. B.-101 Pier "B" in the Long Beach field. Left to right: Buster Garlington, pusher; Charlie Green, driller; Charles Craig, derrick; Al Kennedy, cathead; E. M. Scroggins, leadtong; and Lon Chaney, piperacker.

Beehive Bend Completion

General Petroleum Corp.'s Sprague-Lewis Unit No. 1A located in the northwest quarter of Section 34-20n-2w was completed flowing 19,700 mcf of gas per day through a 74/64" bean, and with the bean reduced to a 48/64" the flow was 8050 mcf of gas per day. The well was drilled to a total depth of 3700 feet and cemented 5½" casing at 3700 feet and gun perforated within the interval 3084-3408 feet.

Sacramento County Gas Test

Intex Oil Company has staked location for Intex-South Penn-Wurster No. 1 located in the center of the southwest quarter of Section 27-6n-4e. The well will be drilled to approximately 4200 feet and will test the Midland-Meganos Sand.

Butte County Test Abandoned

In the Schohr Ranch area, Humble Oil & Refining Company abandoned Leon Brink et ux No. 1 at a total depth of 2775 feet. The test was located in the southeast quarter of Section 24-18n-1e.

Tehama County Test Abandoned

General Petroleum Corp. abandoned Victor No. 33-17 located in the northwest quarter of Section 17-23n-2w at a total depth of 5580 feet. The test was located in the Kirkwood area, three miles southeast of the South Dome Gas field.

Glenn County Gas Test

General Exploration Company is preparing to spud Max Pray-Central Valley-Boyd-Unit A No. 1 located in the southwest quarter of Section 2-18n-1w. The well is a 7000 foot "F" Zone on a 4000-acre block. General Exploration has a 25 percent working interest in the project with Humble Oil & Refining Co. and Richfield Oil Corp. contributing two thirds the cost of the well. Location of the test is approximately one mile southeast of the Afton Gas Field.

Sacramento County Test Abandoned

In the Walnut Grove area, Petan Company has abandoned Gwerder No. 1, located in the southwest quarter of Section 26-5n-4e, at a total depth of 5500 feet. Electric and sonic logs were run before abandonment.

Sacramento County Test for Standard

Standard Oil Company has staked location for Borba Community No. 6 located in the southeast quarter of Section 18-4n-4e. The well will be a 5700 feet Martinez test and is a southwest offset to Brazos Oil & Gas Co.'s S. R. Unit No. 1, completed from a plugged depth of 5490 feet flowing 2800 mcf of gas per day.

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* **Here's a real advantage!**

No other differential fill-up equipment on the market continues to operate after circulation is once established...While running casing, circulation can be established at intervals, and the Halliburton Self-Fill Differential Collar will continue to function until it is sheared by bottom plug or by dropping a ball.

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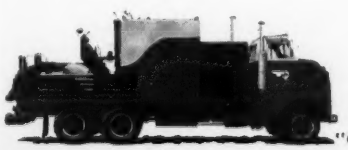

"CONTINUE TO LOOK TO HALLIBURTON — FOR LEADERSHIP"

San Francisco, jointly with the Magma Power Company, have awarded a contract to Barnes Core Drilling Co. for the drilling of twelve shallow steam wells in the Big Beyser area, twenty miles north of Healdsburg.

COASTAL AREA

Gaviota Offshore Test Redrilling

Standard Oil Company's Standard-Humble-Gaviota State No. 2 in projected Section 3-4n-32w drilled to a total depth of 7200 feet and was plugged back and is redrilling below 3500 feet, with the well designation now 2-A.

Hollister Test Abandoned

Aeco Corporation and King Oil, Inc. abandoned Aeco-King-Hollister No. 1-35 at a total depth of 6238 feet. Located in the northwest quarter of Section 35-5n-33w, the test logged the top of the Vaqueros at 2130 feet and the top of the Eocene at 6152 feet.

Fillmore Completion for Standard

Standard Oil Co. completed McFarland-Line Well-Barnard No. 1 flowing 278 b/d of 31 gravity oil cutting 5 percent through a 28/64" bean with pressures of 225/1050 psi. Located in the southeast quarter of Section 19-4n-19w, the well was drilled to a total depth of 14,100 feet and has 5½" casing, selectively perforated within 14,-100-14,030 feet, cemented on bottom.

San Luis Obispo County Tests Abandoned

In the Arroyo Grande area, Husky Oil Company has abandoned three Stratigraphic tests, all in Section 36-31s-12e. Guidetti No. 11 was abandoned at a depth of 805 feet, Guidetti No. 15 at a depth of 795 feet, and Guidetti No. 16 at a depth of 765 feet.

Offshore Test Suspended

Phillips Petroleum Company has suspended drilling operations on Phillips Pet.-Pauley et al-State 2207 E. T. No. 2 at a total depth of 6300 feet. The test is located in projected Section 14-4n-34w, offshore from Point Conception. Offshore from the Naples townsite, Phillips Petroleum Co. is starting Phillips-Pauley, et al-State 2205 E. T. No. 2 in projected Section 14-4n-30w.

Ventura County Test Abandoned

In the Del Norte area, north of the Oxnard field, Union Oil Company abandoned McGrath-McCormick No. 1 located in Section 26-2n-22w at a total depth of 11,058 feet.

Texaco Inc. Offshore Abandonment

Texaco Inc. abandoned Texaco-Monterey-PRC 2206.1 Core Hole 4 located in projected Section 11-4n-33w, offshore from Cuarta Canyon, at a total depth of 2550 feet, with 8⅝" boat was moved to a new location and Texaco is drilling below 2100 feet on Core Hole A, also in Section 11-4n-33w.

Rincon Island Completions

Richfield Oil Corp. completed State 1466 No. 59 flowing 42 b/d of 29.7 gravity oil cutting 0.7 percent from a total depth of 2550 feet with 8⅝" casing cemented at 2338 feet. State 1466 No. 60 was completed flowing 62 b/d of 28.6 gravity oil through a 15/64" bean from a plugged depth of 3073 feet, with 8⅝" casing cemented at 2923 feet. Both wells are located on Richfield's man-made Island in projected Section 13-3n-25w.

Bardsdale Outpost Test

Kenneth Hunter, Jr. Associates are drilling below 2500 feet on Clark-Harris No. 1 located in the southwest quarter of Section 6-3n-19w. The well will be drilled to approximately 5700 feet, and is a northwesterly offset to the Atlantic Oil Company's producer, Burson No. 2.

Simi Test

Federal Oil Company is starting Sergeant-Bryce No. 1, a shallow test located in the southeast quarter of Section 36-3n-18w.

OTHER STATES

Nevada

Magma Power Company of Los Angeles has spudded the first of a series of steam wells to be drilled at Steamboat Springs, eight miles southeast of Reno, Nevada. Barnes Core Drilling Co. will do the drilling and H. L. Shepard & Sons are the engineers in charge.

Shell Oil Company has spudded its Clark County wildcat, Bowl of Fire Unit No. 1, and is drilling ahead after cementing surface casing. Located in the southwest quarter of Section 5-20s-66e, the test is expected to be drilled to approximately 8000 feet.

New Mexico

Location for four Dakota Sand tests has been staked in the San Juan Basin. Kern County Land Company has a location for Harvey-Federal No. 1 located in the southwest quarter of Section 36-25n-6w, and the Caulkins Oil Co. has staked location for Breech No. 1 in the northeast quarter of Section 33-27n-6w, both locations being in Rio Arriba County. In San Juan County, Tennessee Gas Transmission Company is ready to spud Glen Callow No. 8 located in the southeast quarter of Section 27-29n-13w, and El Paso Natural Gas Co. is drilling below 2800 feet on Frontier C No. 2 located in the southeast quarter of Section 5-27n-11w.

Utah

Cities Service Oil Co. completed Navajo No. 1, an extension test of the Aneth Field, pumping 300 b/d clean oil. Located in the southeast quarter of Section 29-40s-24e, the well reached a total depth of 5570 feet and cemented 5½" casing on bottom. The well is producing from the perforated interval 5536-5530 feet.

The Ohio Oil Company has abandoned Navajo-Murphy No. 1 in Section 16-43s-23e in San Juan County. The test was drilled to 6402 feet and a formation test 6290-6402 feet recovered salt water and a show of gas.

The boards of directors of Buttes Gas & Oil Company and Occidental Petroleum Corporation, after exploring the possibilities of the two companies merging, have concluded that at this time such a merger is not practicable or feasible, according to an announcement made by both companies. Details of the corporations' findings were not revealed, but O. G. Green, president of Buttes, and Armand Hammer, president of Occidental, said the directors of both companies have painstakingly explored every angle and have decided that the merger would not be of sufficient advantage to the stockholders of either company. Buttes produced natural gas and oil from its large holdings in California; and Occidental produces both gas and oil from its large holdings in Colorado and New Mexico. The fact that the two companies were exploring merger possibilities was announced in March this year.

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THIS LAUGH

OFF!!

Sailor: "I'd like two hard-boiled eggs to take out."

Waitress: "Okay, but you'll have to wait. Mabel and me don't get through work until 10 o'clock."

Long-winded board member: "Are you following me, Mr. Chairman?"

Long-suffering chairman: "I am so far—but if I thought I could find my way back, I'd quit right here."

A lady friend of ours usually phones the garage to pick up or deliver her car. But one day she decided to take it in herself for a few minor repairs.

After leaving instructions with the head garage man, she was on her way out when sharp and clear over the loudspeaker came a voice:

"Hey, Al, fill up Miss Watkins, give her a wash, and see why she's been stalling."

The car's motor began to pound and finally stopped. The worried driver remarked to the young lady beside him, "I wonder what that knock could be?"

"Maybe," replied the girl, "it was opportunity."

Rare is the fellow who can change gears in these midget cars without getting his face slapped.

Last night I held a little hand,
So dainty and so sweet.
I thought my heart would surely break
So wildly did it beat.
No other hand in all this world
Can greater solace bring
Than that sweet hand I held last night
Four aces and a king.

If the world seems to beat a path to your door you probably have a pretty teen-age daughter.

"I am very absent-minded," said the professor. "I often find names and phone numbers written in my memo book, but I can't remember what persons they represent. Recently I did a general checking up. The name and address of one man baffled me, so I wrote him, asked if he had ever heard of me, and if I was supposed to do something for him. He wrote back a cordial letter saying that I had already done it. He was my wife's first husband."

Mad wife: "Why did you buy two elephants?"

Inebriated husband: "The man wouldn't break up the pair."

"Daddy, is there anything more dangerous to a man than a .20-gauge shotgun?"

"Yes, 60-gauge nylons."

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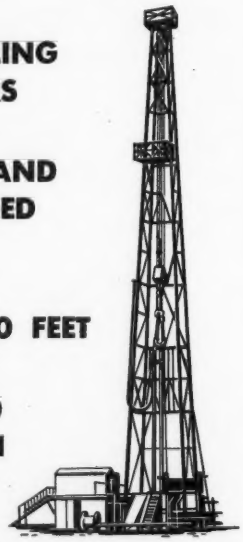

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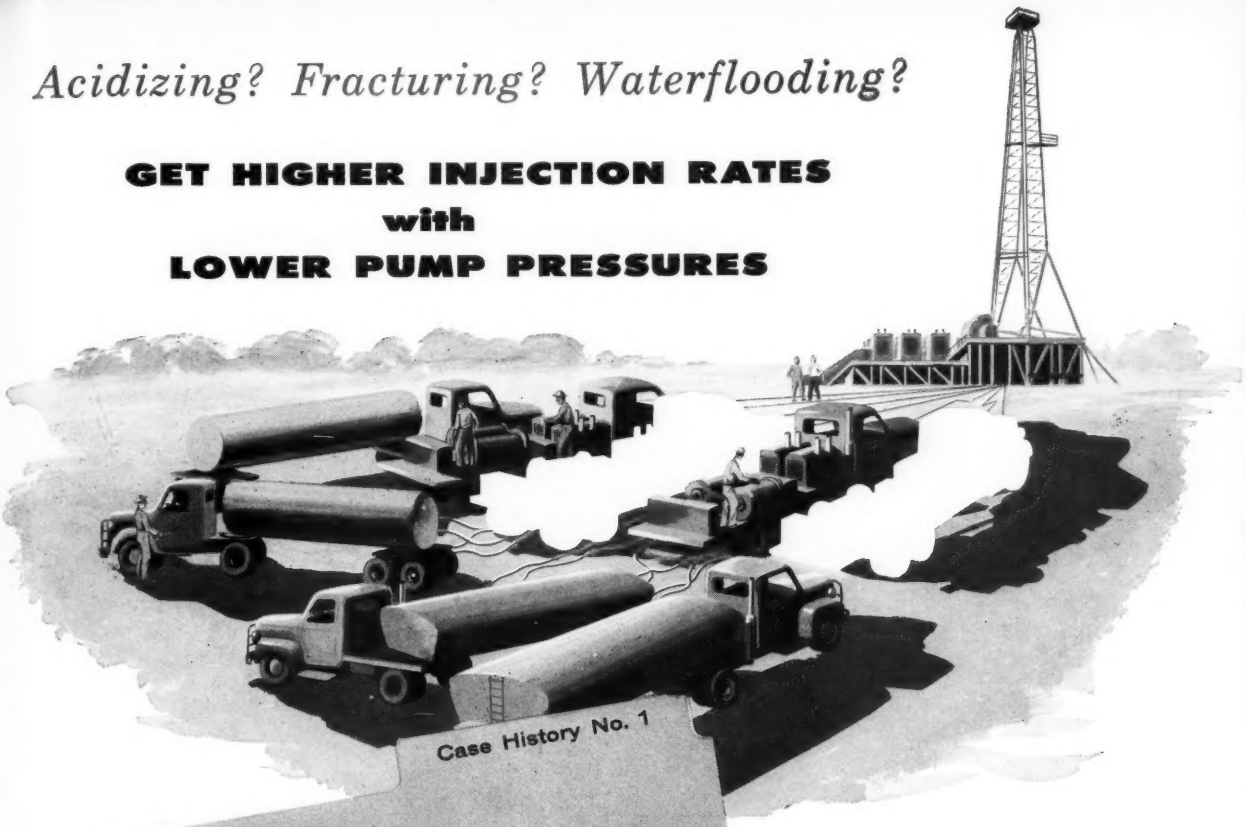

Case History No. 1

Area – West Texas
Formation – Ellenberger Dolomite
Depth – Below 12,000'

BEFORE VIBRO-FRAC, acidizing injection rate averaged .15 bbls. per minute at 6500 p.s.i.

VIBRO-FRAC treatment started with perforating six feet of the casing with E-Gun and three VIBRO-PERFORATOR shots. This was followed by two open hole type VIBRO-FRAC charges in a 19' section of open hole and two casing type VIBRO-FRAC charges in the six foot section of cased hole.

After VIBRO-FRAC, acidizing injection rate started at 1.9 bbls. per minute at 5800 p.s.i. The injection rate increased to 7.3 bbls. per minute and the pressure dropped to 2600 p.s.i.

Case History No. 2

Area – West Texas
Formation – Devonian Chert
Depth – Below 8,500'

BEFORE VIBRO-FRAC, this formation would not take acid in offset wells.

The twelve foot zone of interest was perforated with 72 E-Gun holes and three VIBRO-PERFORATOR shots. Three casing type VIBRO-FRAC charges were spaced in the twelve foot zone.

AFTER VIBRO-FRAC, formation took acid at the rate of 2.4 bbls. per minute at 1500 p.s.i.

Acidizing a formation can mean the difference between a commercial producer and a dry hole. But how do you acidize a formation that won't take acid?

Many formations require extremely high pump pressures. Some formations won't break down at all. For these wells pre-treatment with VIBRO-FRAC, Lane-Wells explosive well stimulation service, makes acidizing practical. Selective fracturing produced by VIBRO-FRAC treatment opens up the formation — lets the acid in to do its work.

Improved VIBRO-FRAC charges can be run without depth or pressure limitations. Ask your Lane-Wells man how VIBRO-FRAC can help you with acidizing—or any type of fluid injection problem formations.

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